Dell™ 2130cn Color Laser Printer User's Guide

Dell™ 2130cn Color Laser Printer User's Guide
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Notes, Notices, and Cautions

NOTE: A **NOTE** indicates important information that helps you make better use of your printer.

NOTICE: A **NOTICE** indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.

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Print Media Guidelines

- Paper
- Envelopes
- Labels
- Storing Print Media
- Identifying Print Media Sources and Specifications

Print media is paper, labels, envelopes, and coated paper among others. Your printer provides high-quality printing on a variety of print media. Selecting the appropriate print media for your printer helps avoid printing troubles. This section describes selecting print media, caring for print media, and loading the print media in the standard 250-sheet tray or optional 250-sheet feeder.

Paper

For the best print quality in color, use 75 g/m^2 (20 lb) xerographic, grain long paper. For the best print quality in black and white, use 90 g/m^2 (24 lb) xerographic, grain long paper. Before buying large quantities of any print media, it is recommended that you try a sample first.

When loading paper, identify the recommended print side on the paper package, and load the paper accordingly. See "Loading Print Media in the Standard 250-Sheet Tray and Optional 250-Sheet Feeder" and "Loading the Single Sheet Feeder" for detailed loading instructions.

Paper Characteristics

The following paper characteristics affect print quality and reliability. It is recommended that you follow these guidelines when evaluating new paper stock.

Weight

The standard 250-sheet tray automatically feeds paper weights from 60 to 216 g/m^2 (16 to 80 lb bond) grain long. The single sheet feeder automatically feeds paper weights from 60 to 216 g/m^2 (16 to 80 lb bond) grain long. Paper lighter than 60 g/m^2 (16 lb) may not feed properly, and could cause paper jams. For best performance, use 75 g/m^2 (20 lb bond) grain long paper.

NOTE: The optional 250-sheet feeder automatically feeds paper weights from 60 to 105 g/m^2 (16 to 80 lb bond) grain long. Paper lighter than 60 g/m^2 (16 lb) may not feed properly, and could cause paper jams. For best performance, use 75 g/m^2 (20 lb bond) grain long paper.

Curl

Curl is the tendency of print media to curve at its edges. Excessive curl can cause paper feeding problems. Curl usually occurs after the paper passes through the printer, where it is exposed to high temperatures. Storing paper unwrapped, even in the paper tray, can contribute to paper curling prior to printing and cause feeding problems regardless of humidity. When printing on curled paper, straighten the paper and then insert it into the single sheet feeder.

Smoothness

The degree of paper smoothness directly affects print quality. If the paper is too rough, the toner does not fuse to the paper properly, resulting in poor print quality. If the paper is too smooth, it can cause paper feeding problems. Smoothness between 150 and 250 Sheffield points produces the best print quality.

Moisture Content

The amount of moisture in the paper affects both print quality and the ability of the printer to feed the paper properly. Leave the paper in its original packaging until you are ready to use it. This limits the exposure of the paper to moisture changes that can degrade its performance.

Grain Direction

Grain refers to the alignment of the paper fibers in a sheet of paper. Grain is either grain long, running the length of the paper, or grain short, running the width of the paper. For 60 to 135 g/m^2 (16 to 36 lb bond) paper, grain long fibers are recommended. For paper heavier than 135 g/m^2 (36 lb bond), grain short is preferred.

Fiber Content

Most high-quality xerographic paper is made from 100% chemically pulped wood. Paper containing fibers such as cotton possess characteristics that can result in degraded paper handling.

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Recommended Paper

To ensure the best print quality and feed reliability, use 75 g/m^2 (20 lb) xerographic paper. Business paper designed for general business use also provide acceptable print quality. Only use paper able to withstand high temperatures without discoloring, bleeding, or releasing hazardous emissions. The laser printing process heats paper to high temperatures. Check with the manufacturer or vendor to determine whether the paper you have chosen is acceptable for laser printers.

NOTE: Always print several samples before buying large quantities of any type of print media. When choosing any print media, you should consider the weight, fiber content, and color.

Unacceptable Paper

The following paper types are not recommended for use with the printer:

- Chemically treated paper used to make copies without carbon paper, also known as carbonless paper, carbonless copy paper (CCP), or no carbon required (NCR) paper
- Preprinted paper with chemicals that may contaminate the printer
- Preprinted paper that can be affected by the temperature in the fuser
- Preprinted paper that require a registration (the precise print location on the page) greater than ±0.09 inches, such as optical character recognition (OCR) forms

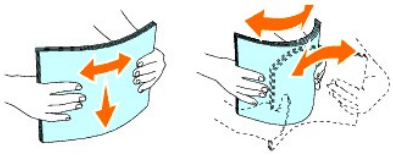
  In some cases, you can adjust registration with your software program to successfully print on these forms.
- Coated paper (erasable bond), synthetic paper, thermal paper
- Rough-edged, rough or heavily textured surface paper, or curled paper
- Recycled paper containing more than 25% post-consumer waste that do not meet DIN 19 309
- Multiple-part forms or documents
- Print quality may deteriorate (blank spaces or blotches may appear in the text) when printing on talc or acid paper.

Selecting Paper

Proper paper selection helps prevent jams and ensures trouble-free printing.

To help avoid jams or poor print quality:

- Always use new, undamaged paper.
- Before loading the paper, identify the recommended print side of the paper. This information is usually indicated on the paper package.
- Do not use paper that you have cut or trimmed yourself.
- Do not mix print media sizes, weights, or types in the same source. This may result in a paper jam.
- Do not remove the tray while a job is printing.
- Ensure that the paper is properly loaded in the tray.
- Flex paper back and forth, and then fan them. Straighten the edges of the stack on a level surface.



Selecting Preprinted Form and Letterhead

When selecting preprinted forms and letterhead paper for the printer:

- Use grain long paper for best results.
- Use only forms and letterhead printed using an offset lithographic or engraved printing process.
- Select paper that absorb ink, but do not bleed.
- Avoid paper with rough or heavily textured surfaces.
- Use paper printed with heat-resistant inks designed for use in xerographic copiers. The ink must withstand temperatures of 225ºC (437ºF) without melting or releasing hazardous emissions.
- Use inks that are not affected by the resin in toner or the silicone in the fuser. Inks that are oxidation-set or oil-based should meet these requirements; latex inks might not. If you are in doubt, contact your paper supplier.

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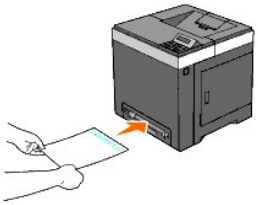
Printing on Letterhead

Check with the manufacturer or vendor to determine whether the pre-printed letterhead you have selected is acceptable for laser printers.

Page orientation is important when printing on letterhead. Use the following table for help when loading letterhead in the print media sources.

Print media source	Print side	Page orientation
Standard 250-Sheet Tray Optional 250-Sheet Feeder	Face up 	Letterhead enters the printer last
Single Sheet Feeder	Face down 	Letterhead enters the printer first

Selecting Pre-Punched Paper

Pre-punched paper brands can differ in the number and placement of holes and in manufacturing techniques. However, it may not be possible to print on the paper to depending on the placement of holes on the paper.

To select and use pre-punched paper:

- Test paper from several manufacturers before ordering and using large quantities of pre-punched paper.
- Paper should be punched at the paper manufacturer and not drilled into paper already packaged in a ream. Drilled paper can cause jams when multiple sheets feed through the printer. This may result in a paper jam.
- Pre-punched paper can include more paper dust than standard paper. Your printer may require more frequent cleaning and feed reliability may not be as good as standard paper.
- Weight guidelines for pre-punched paper are the same as non-punched paper.

Envelopes

Depending on the choice of envelopes, it is possible to expect variable levels of light wrinkling. Before buying large quantities of any print media, it is recommended that you try a sample first. See "Loading Print Media in the Standard 250-Sheet Tray and Optional 250-Sheet Feeder" or "Loading the Single Sheet Feeder" for instructions on loading an envelope.

When printing on envelopes:

- Use only high-quality envelopes that are designed for use in laser printers.
- Set the print media source to the single sheet feeder or standard 250-sheet tray. Set the paper type to **Envelope**, and select the correct size of envelope from the printer driver.
- For best performance, use envelopes made from 75 g/m^2 (20 lb bond) paper. You can use up to 105 g/m^2 (28 lb bond) weight for the envelope feeder as long as the cotton content is 25% or less. Envelopes with 100% cotton content must not exceed 90 g/m^2 (24 lb bond) weight.
- Use only freshly unpackaged, undamaged envelopes.
- Use envelopes that can withstand temperatures of 205°C (401°F) without sealing, excessive curling, wrinkling, or releasing hazardous emissions. If you have any doubts about the envelopes you are considering, check with the envelope supplier.
- Adjust the guide to fit the width of the envelopes.
- To load envelope in the single sheet feeder, insert the envelope with the flaps closed and the short-edge of the envelope facing into the printer. The print side must be facing down.
- See "Loading Print Media in the Standard 250-Sheet Tray and Optional 250-Sheet Feeder" or "Loading the Single Sheet Feeder" for instructions on loading an envelope.
- Use one envelope size during a print job.
- Ensure the humidity is low because high humidity (more than 60%) and the high printing temperatures may seal the envelopes.
- For best performance, do not use envelopes that:

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- Have excessive curl or twist
- Are stuck together or damaged in any way
- Contain windows, holes, perforations, cutouts, embossing
- Use metal clasps, string ties, or metal folding bars
- Have an interlocking design
- Have postage stamps attached
- Have any exposed adhesive when the flap is in the sealed or closed position
- Have nicked edges or bent corners
- Have rough, cockle, or laid finishes

Labels

Your printer can print on many labels designed for use with laser printers. Label adhesives, face sheet (printable stock), and topcoats must be able to withstand temperatures of 205°C (401°F) and pressure of 25 pounds per square inch (psi). Before buying large quantities of any print media, it is recommended that you try a sample first.

When printing on labels:

- Set the paper type to **Label** from the printer driver.
- Do not load labels together with paper in the same tray. This may result in a jam.
- Do not use label sheets with a slick backing material.
- Do not print within 1 mm (0.04 inches) of the die cut.
- Use full label sheets. Partial sheets may cause labels to peel off during printing, resulting in a jam. Partial sheets also contaminate your printer and your cartridge with adhesive, and could void your printer and cartridge warranties.
- Use labels that can withstand temperatures of 205°C (401°F) without sealing, excessive curling, wrinkling, or releasing hazardous emissions.
- Do not print within 1 mm (0.04 inches) of the edge of the label, of the perforations, or between die-cuts of the label.
- Do not use label sheets that have adhesive to the edge of the sheet. It is recommended that zone coating of the adhesive is done at least 1 mm (0.04 inches) away from the edges. Adhesive material contaminates your printer and could void your warranty.
- If zone coating of the adhesive is not possible, a 3 mm (0.125 inches) strip should be removed on the leading and driver edge, and a non-oozing adhesive should be used.
- Remove a 3 mm (0.125 inches) strip from the leading edge to prevent labels from peeling inside the printer.
- Portrait orientation is preferred, especially when printing bar codes.
- Do not use labels that have exposed adhesive.

Storing Print Media

For proper print media storage, the following guidelines help avoid media feeding problems and uneven print quality.

- For best results, store print media in an environment where the temperature is approximately 21°C (70°F) and the relative humidity is 40%.
- Store cartons of print media on a pallet or shelf, rather than directly on the floor.
- If you store individual packages of print media out of the original carton, ensure that they rest on a flat surface so that the edges do not buckle or curl.
- Do not place anything on top of the print media packages.

Identifying Print Media Sources and Specifications

The following tables provide information on standard and optional print media sources.

Supported Paper Sizes

	Single Sheet Feeder	Standard 250-Sheet Tray	Optional 250-Sheet Feeder	Duplexer
A4 (210x297 mm)	Y	Y	Y	Y
B5 (182x257 mm)	Y	Y	Y	N
A5 (148x210 mm)	Y	Y	Y	N
C5 (162x229 mm)	Y	Y	N	N
Monarch (3.875x7.5 in)	Y	Y	N	N

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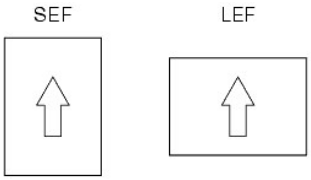
Monarch LEF (7.5x3.875 in)*1	N	Y	N	N
Envelope #10 (4.125x9.5 in)	Y	Y	N	N
DL (110x220 mm)	Y	Y	N	N
DL LEF (220x110 mm)*1	N	Y	N	N
Letter (8.5x11 in)	Y	Y	Y	Y
Legal (8.5x14 in)	Y	Y	Y	Y
Folio (8.5x13 in)	Y	Y	Y	Y
Executive (7.25 x 10.5 in)	Y	Y	Y	N
Custom*2*3	Y	Y	N	N

*1 You can load the paper in two kinds of the paper orientation, the short-edge feed (SEF) and the long edge feed (LEF). The SEF is the paper orientation that is load the paper into the printer from short edge. The LEF is the paper orientation that is load the paper into the printer from long edge. The following illustration shows SEF and LEF. The arrow mark in the illustration shows the orientation of the paper loading.

*2 Custom width: 76.2 mm (3.00 inches) to 215.9 mm (8.5 inches)

Custom length: 127 mm (5.00 inches) to 355.6 mm (14.00 inches)

*3 Only the administrator user can set the custom size from the printer driver.



Supported Paper Types

Media	Single Sheet Feeder	Standard 250-Sheet Tray	Optional 250-Sheet Feeder	Duplexer
Plain	Y*	Y*	Y*	Y*
Plain Side 2	Y	Y	Y	N
Plain Thick	Y	Y	Y	Y
Plain Thick Side 2	Y	Y	Y	N
Recycled	Y	Y	Y	Y
Recycled Side 2	Y	Y	Y	N
Label	Y	Y	N	N
Covers	Y	Y	N	N
Covers Thick	Y	Y	N	N
Envelope	Y	Y	N	N
Coated	Y	N	N	N
Coated Thick	Y	N	N	N
* Values marked by an asterisk (*) are the factory default menu settings.				

Paper Type Specifications

Paper type	Weight (gsm)	Remarks
Plain Paper	60-90	-
Plain Thick Paper	80/90-105	-
Covers	106-163	-
Covers Thick	164-216	-
Coated	106-163	Inkjet printer paper cannot be used.
Coated Thick	164-216	Inkjet printer paper cannot be used.
Label	3R97408	Inkjet printer paper cannot be used.
Envelopes	-	-
Recycled	-	-

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Loading Print Media

- Standard 250-Sheet Tray and Optional 250-Sheet Feeder
- Loading Print Media in the Standard 250-Sheet Tray and Optional 250-Sheet Feeder
- Single Sheet Feeder
- Loading the Single Sheet Feeder
- Using the Duplex Function
- Using the Output Tray
- Using the Output Tray Extension

Loading print media properly helps prevent jams and ensures trouble-free printing.

Before loading print media, identify the recommended print side of the print media. This information is usually on the print media package.

Standard 250-Sheet Tray and Optional 250-Sheet Feeder

Capacity

The standard 250-sheet tray and optional 250-sheet feeder can hold:

- 250 sheets of the standard paper.

Print Media Dimensions

The standard 250-sheet tray accepts print media within the following dimensions:

- Width - 76.2 mm (3.00 inches) to 215.9 mm (8.5 inches)
- Length - 127 mm (5.00 inches) to 355.6 mm (14.00 inches)

The optional 250-sheet feeder accepts print media within the following dimensions:

- Width - 148 mm (5.82 inches) to 215.9 mm (8.5 inches)
- Length - 210 mm (8.27 inches) to 355.6 mm (14.00 inches)

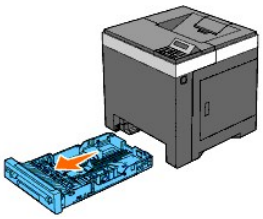
Loading Print Media in the Standard 250-Sheet Tray and Optional 250-Sheet Feeder

NOTE: To avoid paper jams, do not remove the tray while printing is in progress.

NOTE: Use only laser print media. Do not use ink jet paper in this printer.

All trays are loaded the same way.

1. Pull the tray out of the printer about 200 mm. Hold the tray with both hands, and remove it from the printer.



2. Adjust the paper guides.

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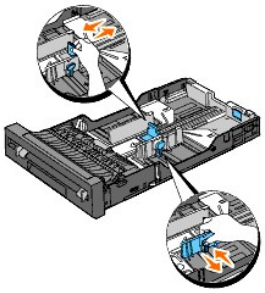
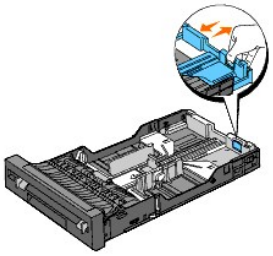
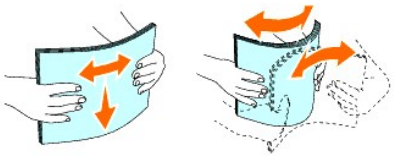


NOTE: When you feed paper from the tray loaded with Legal size paper, extend the rear side of the tray.



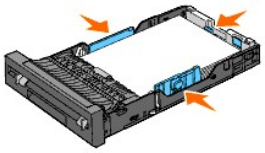
3. Before loading the print media, flex the sheets back and forth, and then fan them. Straighten the edges of the stack on a level surface.



4. Place the print media into the tray with the recommended print side facing up.

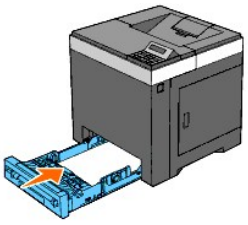
NOTE: Do not exceed the maximum fill line in the tray. Overfilling the tray may cause paper jams.

5. Adjust the width guides and length guides until they rest lightly against the edges of the stack of paper.



NOTE: When loading user-specified print media, adjust the width guides and slide the extendable part of the tray by squeezing the length guide and sliding it until it rests lightly against the edge of the stack of paper.

6. After confirming that the guides are securely adjusted, insert the tray into the printer.



7. Select the paper type from the operator panel if any print media other than plain print media is loaded. If a user-specified print media is loaded in the standard 250-sheet tray, you must specify the paper size setting by using the operator panel.

8. Press **Menu** button.

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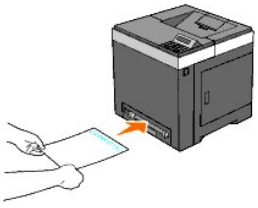
9. Press ^ or v button until Tray Settings appears, and then press ✓ **(Set)** button.
10. Press ^ or v button until Tray 1 appears, and then press ✓ **(Set)** button.
11. Press ^ or v button until Paper Type appears, and then press ✓ **(Set)** button.
12. Press ^ or v button until the desired paper types appears, and then press ✓ **(Set)** button.
13. Press < button.
14. Press ^ or v button until Paper Size appears, and then press ✓ **(Set)** button.
15. Press ^ or v button until Custom Size appears, and then press ✓ **(Set)** button.
16. Press ^ or v button until the desired paper size appears, and then press ✓ **(Set)** button.

Loading Letterhead

When using the standard 250-sheet tray or optional 250-sheet feeder, the letterhead enters the printer last with the print side facing up.

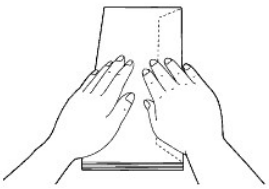
When using the single sheet feeder, the letterhead enters the printer first with the print side facing down.

Print media source	Print side	Page orientation
Standard 250-Sheet Tray Optional 250-Sheet Feeder	Face up 	Letterhead enters the printer last
Single Sheet Feeder	Face down 	Letterhead enters the printer first

Loading Envelopes

Use the following guidelines when loading envelopes in the standard 250-sheet tray:

NOTE: If you do not load envelopes in the standard 250-sheet tray right after they have been removed from the packaging, they may bulge. To avoid jams, flatten them as shown below before loading them in the standard 250-sheet tray.



Envelope #10

Load the envelopes short edge feed with the flaps closed and the print side up. Ensure that the flaps come at the right when you face towards the printer.

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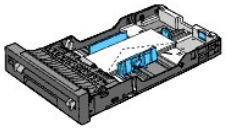
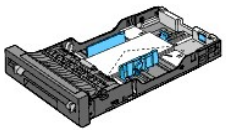


Monarch or DL

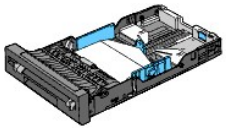
The Monarch or DL envelopes can be loaded in one of the following ways:

Load the envelopes short edge feed with the flaps closed and the print side up. Ensure that the flaps come at the right when you face towards the printer.



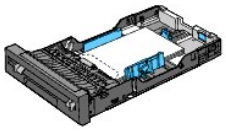
OR

Load the envelopes long edge feed (LEF) with the flaps open and the print side up. Ensure that the flaps come at the top when you face towards the printer.



C5

Load the envelopes short edge feed with the flaps closed and the print side up. Ensure that the flaps come at the bottom when you face towards the printer.



Linking Trays

Tray linking allows you to load the same size and type of print media in the standard 250-sheet tray and optional 250-sheet feeder. The printer automatically links the trays and will use the first tray until it runs out of media, then switch to the linked tray.

If you load the same size print media in each tray, ensure that the type of media is same.

When the selected trays are loaded with the same size and type of print media, select the Paper Type settings in the Tray Settings for each source.

To disable tray linking, set the Paper Type to a unique value in each one of the trays. If all trays do not have the same type of print media when linked, you could mistakenly print a job on the wrong paper type.

NOTE: If the paper type is not specified in the printer driver, the printer automatically links the trays (even if there are different types of print media loaded in them).

Single Sheet Feeder

Capacity

The single sheet feeder can hold:

- 1 sheet of the standard paper.

Print Media Dimensions

The single sheet feeder accepts print media within the following dimensions:

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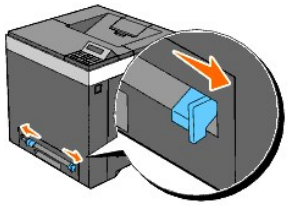
- Width - 76.2 mm (3.00 inches) to 215.9 mm (8.5 inches)
- Length - 127 mm (5.00 inches) to 355.6 mm (14.00 inches)

Loading the Single Sheet Feeder

1. Adjust the width guides to the print media's width.



2. Hold both sides of the print media facing down close to the single sheet feeder, and push it into the printer until it automatically feeds.

NOTE: Do not force the print media into the single sheet feeder.

NOTE: Load letterhead face-down, with the top of the sheet entering the printer first.

NOTE: If you experience problems with paper feed, turn the paper around.

Loading an Envelope

Envelope #10, Monarch, or DL

To load an envelope into the single sheet feeder, insert the envelope short edge feed with the flap closed and the print side down. Ensure that the flap comes at the right when you face towards the printer.

NOTICE: Never use envelopes with windows, coated linings, or self-stick adhesives. These lead to paper jams and can damage the printer.

NOTE: Ensure that you load an envelope with the flap completely closed.

NOTE: Insert an envelope with the flap side face up and with the stamp area on the top right side.

C5

To load an envelope into the single sheet feeder, insert the envelope short edge feed with the flap open and the print side down. Ensure that the flap comes at the bottom when you face towards the printer.

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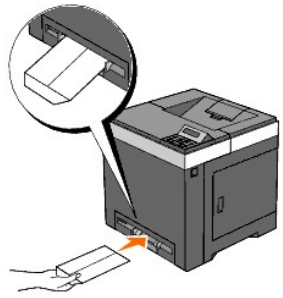


NOTICE: Never use envelopes with windows, coated linings, or self-stick adhesives. These lead to paper jams and can damage the printer.

NOTE: Ensure that you load an envelope with the flap completely opened.

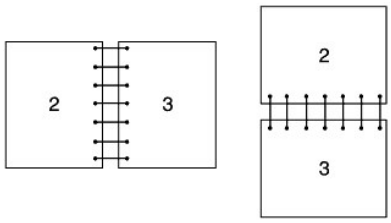
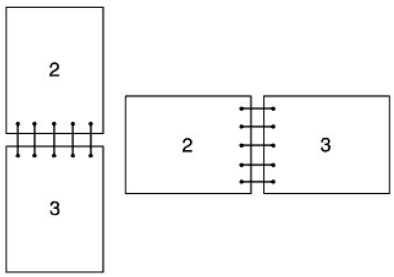
NOTE: Insert an envelope with the flap side face up and with the stamp area on the bottom right side.

Using the Duplex Function

Duplex printing (or two-sided printing) allows you to print on both sides of a sheet of paper automatically. Duplex printing is only available when the optional duplexer is installed on the printer. For information on how to install the duplexer, see "Installing a Duplexer". For sizes that are acceptable for duplexer, see "Supported Paper Sizes".

Using Booklet Print

To use booklet print, you must select either **Flip on Short Edge** or **Flip on Long Edge** from the **Duplex** menu in the printer properties dialog box and then select **Booklet Creation** in the **Booklet/Poster/Mixed Document** dialog box displayed by clicking the **Booklet/Poster/Mixed Document** button. From the **Duplex** menu, you can define the way 2-sided print pages are bound, and how the printing on the back of the sheet (even-numbered pages) is oriented in relation to the printing on the front (odd-numbered pages).

Flip on Long Edge	Assumes binding along the long edge of the page (left edge for portrait orientation and top edge for landscape orientation). The following illustration shows long-edge binding for portrait and landscape pages: 
Flip on Short Edge	Assumes binding along the short edge of the page (top edge for portrait orientation and left edge for landscape orientation). The following illustration shows short-edge binding for portrait and landscape pages: 

Using the Output Tray

The output tray holds up to:

- 150 sheets of plain paper

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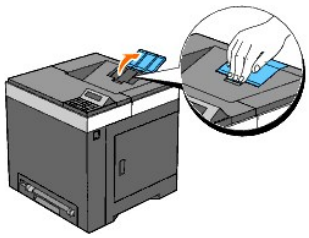
Using the Output Tray Extension

The output tray extension is designed to prevent print media from falling from the printer after the print job is complete.

Before printing a document, ensure the output tray extension is fully extended.



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Printer Settings

- Printing a Printer Settings Page
- Using the Operator Panel to Change Printer Settings
- Using the Tool Box to Change the Printer Settings
- Using the Dell Printer Configuration Web Tool to Change Printer Settings
- Resetting Defaults
- Initializing NVRAM for Network Settings

You can change most system settings from your software programs. If your printer is attached to the network, you can change settings from the **Dell Printer Configuration Web Tool**. To launch the **Dell Printer Configuration Web Tool**, type the printer's IP address in your Web browser. To find your printer's IP address, see "Printing a Printer Settings Page".

Settings from the software program update the default printer settings for the printer. Settings from the printer driver only apply to the job you are sending to the printer.

If you cannot change a setting from your software program, use the operator panel, Tool Box or the **Dell Printer Configuration Web Tool**. Changing a printer setting from the operator panel, Tool Box or from the **Dell Printer Configuration Web Tool** makes that setting the user default.

Printing a Printer Settings Page

You can verify the detailed printer settings by printing a printer settings page.

When Using the Operator Panel

1. Press **Menu** button.
2. Press ✓ button until Report/List appears, and then press ✓ **(Set)** button.
3. Printer Setting is displayed. Press ✓ **(Set)** button.

   The printer settings page is printed.

When Using the Tool Box

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

   The **Select Printer** dialog box opens.
2. Click the name of this printer listed in **Printer Name**, and then click **OK**.

   The **Tool Box** opens.
3. Click the **Printer Settings Report** tab.
4. Select **Reports** from the list at the left side of the page.

   The **Reports** page is displayed.
5. Click the **Printer Settings** button.

   The printer settings page is printed.

Using the Operator Panel to Change Printer Settings

You can select menu items and corresponding values from the operator panel.

When you first enter the menus from the operator panel, you see an asterisk (*) next to a value in the menus.

This asterisk indicates the factory default menu setting. These settings are the original printer settings.

NOTE: Factory defaults may vary for different countries.

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When you select a new setting from the operator panel, an asterisk appears next to the setting to identify it as the current user default menu setting.

These settings are active until new ones are selected or the factory defaults are restored.

To select a new value as a setting:

1. Press **Menu** button.
2. Press ^ or v button until the desired menu appears, and then press ✓ **(Set)** button.
3. Press ^ or v button until the desired menu or menu item appears, and then press ✓ **(Set)** button.
   - If the selection is a menu, the menu is opened and the first system setting in the menu appears.
   - If the selection is a menu item, the default menu setting for the menu item appears. (The current user default menu setting has an asterisk (*) beside it.)

   Each menu item has a list of values for the menu item. A value can be:
   - A phrase or word to describe a setting
   - A numerical value that can be changed
   - An On or Off setting
   - Press ^ or v buttons at the same time. This will restore the factory default menu settings. Press ✓ **(Set)** button to return the settings to the factory default menu settings.
4. Press ^ or v button to scroll until the desired value appears.
5. Press ✓ **(Set)** button.

   This enables the setting value, which is indicated by an asterisk (*) next to the setting value.
6. Press **Cancel** or < button to return to the previous menu.

   To continue setting other items, select the desired menu. To quit setting new values, press **Cancel** button.

Driver settings may override changes previously made and may require you to change the operator panel defaults.

Using the Tool Box to Change the Printer Settings

You can select menu items and corresponding values from the Tool Box.

NOTE: Factory defaults may vary for different countries.

These settings are active until new ones are selected or the factory defaults are restored.

To select a new value as a setting:

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

   The **Select Printer** dialog box opens.
2. Click the name of this printer listed in **Printer Name**, and then click **OK**.

   The **Tool Box** opens.
3. Click the **Printer Maintenance** tab.
4. Select the desired menu item.

   Each menu item has a list of values for the menu item. A value can be:
   - A phrase or word to describe a setting
   - A numerical value that can be changed
   - An On or Off setting
5. Select the desired value, and then click the associated button with each menu item.

Driver settings may override changes previously made and may require you to change the Tool Box defaults.

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Using the Dell Printer Configuration Web Tool to Change Printer Settings

If your printer is connected to the network, you can change the device settings from your Web browser. If you are a network administrator, you can clone the printer settings of one printer to one or all printers on the network.

Type your printer's IP address in your Web browser. Choose **Printer Settings** from the topics list, and then select the **System Settings** you want to change.

To copy your printer settings to another printer on the network, choose **Copy Printer Settings** from the topics list, and then type the other printer's IP address.

If you do not know your printer's IP address, see the printer settings page. To print a printer settings page:

When Using the Operator Panel

1. Press **Menu** button.
2. Press ✓ button until Report/List appears, and then press ✓ **(Set)** button.
3. Printer Setting is displayed. Press ✓ **(Set)** button.

   The printer settings page is printed.

When Using the Tool Box

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

   The **Select Printer** dialog box opens.
2. Click the name of this printer listed in **Printer Name**, and then click **OK**.

   The **Tool Box** opens.
3. Click the **Printer Settings Report** tab.
4. Select **Reports** from the list at the left side of the page.

   The **Reports** page is displayed.
5. Click the **Printer Settings** button.

   The printer settings page is printed.

Resetting Defaults

After executing this function and rebooting the printer, all the menu parameters, except the parameters for the network, are reset to their default values.

When Using the Operator Panel

1. Press **Menu** button.
2. Press ✓ button until Admin Menu appears, and then press ✓ **(Set)** button.
3. Press ✓ button until Maintenance appears, and then press ✓ **(Set)** button.
4. Press ✓ button until Reset Defaults appears, and then press ✓ **(Set)** button.
5. The Are you sure? message appears on the operator panel. Press ✓ **(Set)** button.
6. Turn off the printer, and then on again to apply the settings.

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When Using the Tool Box

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

   The **Select Printer** dialog box opens.

2. Click the name of this printer listed in **Printer Name**, and then click **OK**.

   The **Tool Box** opens.

3. Click the **Printer Maintenance** tab.

4. Select **Reset Defaults** from the list at the left side of the page.

   The **Reset Defaults** page is displayed.

5. Click the **Start** button.

   The printer is turned off automatically to apply the settings.

Initializing NVRAM for Network Settings

You can initialize the IP address and network-related settings by initializing NVRAM for Network settings.

1. Press **Menu** button.
2. Press ⌄ button until `Admin Menu` appears, and then press ✓ **(Set)** button.
3. Press ⌄ button until `Network` appears, and then press ✓ **(Set)** button.
4. Press ⌄ button until `Reset LAN` appears, and then press ✓ **(Set)** button.
5. The `Are you sure?` message appears on the operator panel. Press ✓ **(Set)** button.
6. Turn off the printer, and then on again to apply the settings.

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Understanding the Tool Box Menus

- Printer Settings Report
- Printer Maintenance
- Diagnosis

The Tool Box allows you to view or specify the printer settings. You can also diagnose the printer settings by using the Tool Box.

The Tool Box consists of the **Printer Settings Report**, **Printer Maintenance**, and **Diagnosis** tabs.

NOTE: A **Password** dialog box appears the first time you try to change settings on **ToolBox** when **Panel Lock** is set on the printer. In this case, input the password you specified, and click **OK** to apply the settings.

Printer Settings Report

The **Printer Settings Report** tab includes the **Printer Information**, **Menu Settings**, **Reports**, **Network Settings**, and **TCP/IP Settings** pages.

NOTE: Values marked by an asterisk (*) are the factory default menu settings.

Printer Information

Purpose:

To display the printer's system information.

Values:

Dell Service Tag Number	Displays Dell's service tag number.
Printer Serial Number	Displays the printer's serial number.
Printer Type	Displays the type of printing for the printer. Color Laser is displayed normally.
Asset Tag Number	Displays the printer's asset tag number.
Memory Capacity	Displays the memory capacity.
Processor Speed	Displays the processing speed.
Firmware Version	Displays the version of the controller.
Network Firmware Version	Displays the NIC version.
MCU Firmware Version	Displays the version of the MCU firmware.
Printing Speed (Color)	Displays the speed for color printing.
Printing Speed (Monochrome)	Displays the speed for monochrome printing.

Menu Settings

Purpose:

To display the printer's menu settings.

Values:

	Power Saver Timer Mode 1	Displays the amount of time before the printer enters the power saver timer mode 1 after it finishes a job.
	Power Saver Timer Mode 2	Displays the amount of time before the printer enters the power saver timer mode 2 after it goes into the power saver timer mode 1.
	Control Panel Tone	Displays whether to emit the tone when the operator panel input is correct. **Off** indicates that the tone is disabled.
	Invalid Key Tone	Displays whether to emit the tone when the operator panel input is incorrect. **Off** indicates that the tone is disabled.
	Machine Ready Tone	Displays whether to emit the tone when the printer becomes ready. **Off** indicates that the tone is disabled.
	Job Complete Tone	Displays whether to emit the tone when a job is complete. **Off** indicates that the tone is disabled.
	Fault Tone	Displays whether to emit the tone when a job ends abnormally. **Off** indicates that the tone is disabled.
	Alert Tone	Displays whether to emit the tone when a problem occurs. **Off** indicates that the tone is disabled.
	Out of Paper Alert Tone	Displays whether to emit the tone when the printer runs out of paper. **Off** indicates that the tone is disabled.
	Low Toner Alert Tone	Displays whether to emit the tone when the toner or some other consumable is low. **Off** indicates that the tone is disabled.

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System Settings	**Base Tone**	Displays whether to emit the tone when the operator panel is returned to the default by scrolling the loop menu. **Off** indicates that the tone is disabled.
	Fault Time-Out	Displays the amount of time the printer cancels for a job stops abnormally.
	Time-Out	Displays the amount of time the printer waits for data to arrive from the computer.
	Panel Language	Displays the language to be used on the operator panel.
	Auto Log Print	Displays whether the printer outputs a log of completed jobs from the printer automatically.
	Print ID	Displays where to print a user ID on the output paper.
	Print Text	Displays whether the printer outputs PDL (Page Description Language) data, which is not supported by the printer, as text when the printer receives it.
	Banner Sheet Insert Position	Displays where to insert a banner sheet.
	Banner Sheet Specify Tray	Displays which input tray to use to insert a banner sheet.
	RAM Disk	Displays whether to allocate RAM for the file system for the Secure Print and Proof Print features. This item is only available when the 512 MB, or higher, optional memory is installed.
	Odd Page 2 Sided	Displays how the odd last page is printed when using duplex printing.
	Substitute Tray	Displays whether to use another size paper when the paper that is loaded in the specified tray does not match the paper size settings for the current job.
	mm/inch	Displays the measurement unit used on the operator panel.
Paper Density	**Plain**	Displays the plain paper density settings.
	Label	Displays the label paper density settings.
Auto Registration Adjustment	**Auto Registration Adjustment**	Displays whether to automatically adjust color registration.
Adjust Altitude	**Adjust Altitude**	Displays the altitude of the location where the printer is installed.
Non-Dell Toner	**Non-Dell Toner**	Displays whether or not to use another manufacturer's toner cartridge.
Tray Settings	**Tray 1 Paper Type**	Displays the paper type setting of the standard 250-sheet tray.
	Tray 1 Paper Size	Displays the paper size setting of the standard 250-sheet tray.
	Tray 1 Custom Size - Y	Displays the length of custom size paper loaded in the standard 250-sheet tray.
	Tray 1 Custom Size - X	Displays the width of custom size paper loaded in the standard 250-sheet tray.
	Tray 2 Paper Type*[1]	Displays the paper type setting of the optional 250-sheet feeder.
	Tray 2 Paper Size*[1]	Displays the paper size setting of the optional 250-sheet feeder.
	Display Popup	Displays a popup menu that prompts to set the paper size and type when paper is loaded in the standard 250-sheet tray or optional 250-sheet feeder.
*[1] This item is only available when the optional 250-sheet feeder is installed.		

Reports

Purpose:

To print the printer's settings and history information.

The reports are printed in the paper size specified in printer settings. The default is A4 or Letter.

Values:

Printer Settings	Click to print a detailed list of the printer settings.
Panel Settings	Click to print a detailed list of the panel settings.
Job History	Click to print the printer's Completed Jobs history.
Error History	Click to print the printer's error history.
Print Meter	Click to print the print meter.
Color Test Page	Click to print a color test page.

TCP/IP Settings

Purpose:

To display the current settings of TCP/IP (Transmission Control Protocol/Internet Protocol) protocol.

Values:

IP Address Mode	Displays the method for acquiring the IP address.
IP Address	Displays the printer's IP address.
Subnet Mask	Displays the subnet mask.
Gateway Address	Displays the gateway address.

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Printer Maintenance

The **Printer Maintenance** tab includes the **System Settings**, **Paper Density**, **Registration Adjustment**, **Adjust Altitude**, **Reset Defaults**, **Non-Dell Toner**, **Initialize PrintMeter**, **Tray Settings**, **TCP/IP Settings**, and **Network Settings** pages.

NOTE: Values marked by an asterisk (*) are the factory default menu settings.

System Settings

Purpose:

To Use these settings to configure the printer's power management, warning tones, time-out time, operator panel language setting, job log auto print, position of the Print ID, setting of the dump print, setting of the additional memory, setting of the substitute sheet, mm/inch setting, and duplex print settings.

Values:

Power Saver Timer Mode 1*[1]	1-30 Min.		Specifies the time before the printer enters the power saver timer mode 1(sleep mode) after it finishes a job.
	3 Min.*		
Power Saver Timer Mode 2*[1]	5-60 Min.		Specifies the time before the printer enters the power saver timer mode 2 (deep sleep mode) after it goes into the power saver timer mode 1.
	10 Min*		
Audio Tones	**Control Panel Tone**	Off*	Does not emit a tone when the operator panel input is correct.
		On	Emits a tone when the operator panel input is correct.
	Invalid Key Tone	Off*	Does not emit a tone when the operator panel input is incorrect.
		On	Emits a tone when the operator panel input is incorrect.
	Machine Ready Tone	Off*	Does not emit a tone when the printer becomes ready.
		On	Emits a tone when the printer becomes ready.
	Job Complete Tone	Off*	Does not emit a tone when a job is complete.
		On	Emits a tone when a job is complete.
	Fault Tone	Off*	Does not emit a tone when a job ends abnormally.
		On	Emits a tone when a job ends abnormally.
	Alert Tone	Off*	Does not emit a tone when a problem occurs.
		On	Emits a tone when a problem occurs.
	Out of Paper Alert Tone	Off*	Does not emit a tone when the printer runs out of paper.
		On	Emits a tone when the printer runs out of paper.
	Low Toner Alert Tone	Off*	Does not emit a tone when toner or some other consumable is low.
		On	Emits a tone when toner or some other consumable is low.
	Base Tone	Off*	Does not emit a tone when the operator panel display is returned to the default settings by scrolling the loop menu.
		On	Emits a tone when the operator panel display is returned to the default settings by scrolling the loop menu.
Fault Time-Out	0		Disables the fault time-out.
	3-300 sec		Specifies the amount of time the printer cancels for a job stops abnormally.
	60 sec*		
Time-Out	0		Disables the job time-out.
	5-300 sec		Specifies the amount of time before the printer cancels for jobs that stop abnormally.
	30 sec*		
Panel Language	English*		Specifies the language to be used on the operator panel.
	French		
	Italian		
	German		
	Spanish		
	Dutch		
	Danish		
	Norwegian		
	Swedish		
Auto Log Print	Off*		Does not automatically output a log of completed jobs from the printer.
	On		Outputs a log of completed jobs from the printer automatically.
Print ID	Off*		Does not print the user ID.
	Top Left		Prints the user ID on the specified location.
	Top Right		
	Bottom Left		

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	Bottom Right	
Print Text	Off	Does not print the received PDL data as text data.
	On*	Prints the received PDL data as text data.
Banner Sheet Insert Position	Off*	Does not insert the banner sheet.
	Front	Inserts the banner sheet to the specified position.
	Back	
	Front & Back	
Banner Sheet Specify Tray	Tray 1*	Specifies the input tray to insert the banner sheet.
	Tray 2*[2]	
RAM Disk*[3]	Disable	Does not allocate RAM for the disk file system. Secure Print, and Proof Print jobs will abort and be recorded to the job log.
	50–500MB*[4]	Allocates RAM for the disk file system automatically.
	50–1000MB*[5]	
Odd Page 2 Sided	1 Sided*	Prints the odd last page upside down to the paper.
	2 Sided	Prints the odd last page in normal direction to the paper.
Substitute Tray	Off	No tray size substitute accepted.
	Larger Size	Substitutes paper of next largest size. When there is no larger paper size, the printer substitutes paper of nearest size.
	Nearest Size*	Substitutes paper of nearest size.
mm/inch	millimeter (mm)*	Selects millimeter or inch as the default measurement unit.
	inch (") *[6]	
Apply New Settings		After you complete the settings, press the **Apply New Settings** button to apply the changes.
Restart printer to apply new settings		Press the **Restart printer to apply new settings** button to apply the changes.

*[1] Enter 3 to put the printer in the power saver timer mode three minutes after it finishes a job. This uses much less energy, but requires more warm-up time for the printer. Enter 3 if your printer shares an electrical circuit with room lighting and you notice lights flickering.

Select a high value if your printer is in constant use. Under most circumstances, this keeps the printer ready to operate with minimum warm-up time. Select a value between 1 and 30 minutes for the power saver timer mode if you want a balance between energy consumption and a shorter warm-up period.

The printer automatically returns to the standby mode from the power saver timer mode when it receives data from the computer. You can also return the printer to the standby mode by pressing any button on the operator panel.

*[2] This item is only available when the optional 250-sheet feeder is installed.

*[3] This item is only available when the 512 MB, or higher, optional memory is installed.

*[4] Only displayed when the optional 512 MB memory is installed.

*[5] Only displayed when the optional 1024 MB memory is installed.

*[6] The factory default setting of **mm/inch** is set to **inch(")** in the United States.

Paper Density

Purpose:

To specify the paper density settings.

Values:

Plain	**Normal***	Specifies plain paper density settings.
	Light	
Label	**Normal***	Specifies label paper density settings.
	Light	
Apply New Settings		After you complete the settings, press the **Apply New Settings** button to apply the changes.
Restart printer to apply new settings		Press the **Restart printer to apply new settings** button to apply the changes.

Registration Adjustment

Purpose:

To set Color Registration Adjustment (individual yellow, magenta, cyan correction) settings. When **Auto Registration Adjustment** is set to **On**, the printer prints the color registration chart and adjusts the color registration by using the chart. This function is required after the printer is set up or moved.

Values:

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Auto Registration Adjustment	**Off**		Does not perform color registration automatically.
	On*		Performs color registration automatically.
Auto Correct			Click **Start** to perform color registration automatically.
Color Regi Chart			Click **Start** to print a color registration chart.
Color Registration Adjustment 1 (Lateral)	**Yellow**	**-9 - +9**	Specifies lateral (perpendicular to paper feed direction) color adjustment values that are found in the color registration chart individually for **Yellow**, **Magenta**, and **Cyan**.
		0*	
	Magenta	**-9 - +9**	
		0*	
	Cyan	**-9 - +9**	
		0*	
Color Registration Adjustment 2 (Process)	**Yellow**	**-9 - +9**	Specifies process (paper feed direction) color adjustment values that are found in the color registration chart individually for **Yellow**, **Magenta**, and **Cyan**.
		0*	
	Magenta	**-9 - +9**	
		0*	
	Cyan	**-9 - +9**	
		0*	
Apply New Settings			After you complete the settings, press the **Apply New Settings** button to apply the changes.
Restart printer to apply new settings			Press the **Restart printer to apply new settings** button to apply the changes.

Adjust Altitude

Purpose:

To specify the altitude of the location where the printer is installed.

The discharge phenomenon for charging the photo conductor varies with barometric pressure. Adjustments are performed by specifying the altitude of the location where the printer is being used.

Values:

0 meter*	Specifies the altitude of the location where the printer is installed.
1000 meters	
2000 meters	
3000 meters	
Apply New Settings	After you complete the settings, press the **Apply New Settings** button to apply the changes.
Restart printer to apply new settings	Press the **Restart printer to apply new settings** button to apply the changes.

Reset Defaults

Purpose:

To initialize the NV (nonvolatile) memory for system parameters. After executing this function to automatically restart the printer, the menu parameters, or data are reset to their default values.

Values:

Start	Initializes system parameters.

Non-Dell Toner

When Non-Dell toner cartridge is used, the printer may be severely damaged and may not be covered by your warranty.

Purpose:

To specify whether or not to use another manufacturer's toner cartridge.

Values:

Non-Dell Toner	Off*	Disables the use of another manufacturer's toner cartridge.
	On	Enables the use of another manufacturer's toner cartridge.

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Apply New Settings	After you complete the settings, press the **Apply New Settings** button to apply the changes.
Restart printer to apply new settings	Press the **Restart printer to apply new settings** button to apply the changes.

Initialize PrintMeter

Purpose:

To initialize the printer's PrintMeter. Executing this function restarts the printer, and the value of the meter resets to 0.

Values:

Initialize PrintMeter	Click **Start** to initialize the PrintMeter.

Tray Settings

Purpose:

To specify the paper types and sizes for input trays respectively.

Values:

Tray 1 Paper Type	Plain*	Specifies the type of paper loaded in the standard 250-sheet tray.
	Plain Thick	
	Covers	
	Covers Thick	
	Label	
	Recycled	
	Envelope	
	Plain S2*[1]	
	Plain Thick S2*[1]	
	Recycled S2*[1]	
Tray 1 Paper Size	A4 (210 x 297 mm)*	Specifies the size of paper loaded in the standard 250-sheet tray.
	A5 (148 x 210 mm)	
	B5 (182 x 257 mm)	
	Letter (8.5 x 11")	
	Folio (8.5 x 13")	
	Legal (8.5 x 14")	
	Executive (7.25 x 10.5")	
	Monarch (3.875 x 7.5")	
	Monarch LEF (7.5 x 3.875")	
	DL (110 x 220 mm)	
	DL LEF (220 x 110 mm)	
	C5 (162 x 229 mm)	
	Envelope #10 (4.125 x 9.5")	
	Custom Size	
Tray 1 Custom Size - Y	Specifies the length of custom size paper loaded in the standard 250-sheet tray. The available range is from 127 mm (5.0 in.) to 355 mm (14.0 in.).	
Tray 1 Custom Size - X	Specifies the width of custom size paper loaded in the standard 250-sheet tray. The available range is from 77 mm (3.0 in.) to 215 mm (8.5 in.).	
Tray 2 Paper Type*[2]	Plain*	Specifies the type of paper loaded in the optional 250-sheet feeder.
	Plain Thick	
	Recycled	
	Plain S2*[1]	
	Plain Thick S2*[1]	
	Recycled S2*[1]	
	A4 (210 x 297 mm)*	
	A5 (148 x 210 mm)	
	B5 (182 x 257 mm)	

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Tray 2 Paper Size*[2]	Letter (8.5 x 11")	Specifies the size of paper loaded in the optional 250-sheet feeder.
	Folio (8.5 x 13")	
	Legal (8.5 x 14")	
	Executive (7.25 x 10.5")	
Display Popup	Off	Does not display a popup message that prompts to set paper size and type when paper is loaded in the standard 250-sheet tray and optional 250-sheet feeder.
	On*	Displays a popup message that prompts to set paper size and type when paper is loaded in the standard 250-sheet tray and optional 250-sheet feeder.
Apply New Settings	After you complete the settings, press the **Apply New Settings** button to apply the changes.	
Restart printer to apply new settings	Press the **Restart printer to apply new settings** button to apply the changes.	

*[1] "S2" means the print side 2 of the paper.

*[2] This item is only available when the optional 250-sheet feeder is installed.

TCP / IP Settings

Purpose:

To configure TCP/IP settings.

Values:

IP Address Mode	AutoIP*	Automatically sets the IP address. A random value in the range of 169.254.1.0 to 169.254.254.255 that is not currently in use on the network is set as the IP address. The subnet mask is set as 255.255.0.0.
	DHCP	Sets the IP address using DHCP.
	BOOTP	Sets the IP address using BOOTP.
	RARP	Sets the IP address using RARP.
	Manually Set	Manually sets the IP address.
IP Address*[1]		Manually sets the IP address allocated to the printer. It is allocated to the printer using the format nnn.nnn.nnn.nnn. Each octet that makes up nnn.nnn.nnn.nnn is a value in the range of 0 to 254.
Subnet Mask*[2]		Manually sets the subnet mask. It is specified using the format nnn.nnn.nnn.nnn. Each octet that makes up nnn.nnn.nnn.nnn is a value in the range of 0 to 255.
Gateway Address*[1]		Manually sets the gateway address. It is specified using the format nnn.nnn.nnn.nnn. Each octet that makes up nnn.nnn.nnn.nnn is a value in the range of 0 to 254.
Apply New Settings		After you complete the settings, press the **Apply New Settings** button to apply the changes.
Restart printer to apply new settings		Press the **Restart printer to apply new settings** button to apply the changes.

*[1] 127 and any value in the range of 224 to 254 cannot be specified for the first octet of a gateway address.

*[2] 255.255.255.255 cannot be specified as the subnet mask.

Network Settings

Purpose:

To display the server settings of the **Dell Printer Configuration Web Tool**.

NOTE: When the printer is connected to the local port, this setting cannot be displayed.

Values:

Display		Displays the server settings of the Dell Printer Configuration Web Tool.
Display of EWS	Off	Disable to display the server settings of the Dell Printer Configuration Web Tool.
	On*	Enable to display the server settings of the Dell Printer Configuration Web Tool.

Diagnosis

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The **Diagnosis** tab includes the **Chart Print**, **Machine Check**, **Paper Wrinkle Check Mode**, **Environment Sensor Info**, **Developer Stir Mode**, and **Refresh Mode** pages.

NOTE: Values marked by an asterisk (*) are the factory default menu settings.

Chart Print

Purpose:

To print various charts that can be used for the printer's diagnosis.

Values:

Pitch Configuration Chart	Outputs full halftone pages for yellow, magenta, cyan, and black. Also outputs pages to check the pitch. A total of five pages are output. The chart is output to A4 or Letter size paper.
Ghost Configuration Chart	Outputs a chart to check for ghost printing. One page is output. The chart is output to A4 or Letter size paper.
4 Colors Configuration Chart	Bands of yellow, magenta, cyan, and black are output with varying density. One page is output. The chart is output to A4 or Letter size paper.
MQ Chart	Outputs charts to check for the binding in A4 or Letter.
Alignment Chart	Outputs a chart to check for proper alignment of the print image on the paper. One page is output. The chart is output to A4 or Letter size paper.
PHD Refresh Configuration Chart	Outputs a chart to check the light fatigue of the PHD unit. One page is output. The chart is output to A4 or Letter size paper.

Machine Check

Purpose:

To check the operation of the printer's components.

Values:

Machine Check	**Main Motor Operation Check***	Click **Start** to operate the main motor inside the printer. Confirm the motor sound.
	Fuser Motor Operation Check	Click **Start** to operate the fuser motor. Confirm the motor sound.
	Feed Roll Operation Check*1	Click **Start** to operate the feed roll. Confirm the motor sound.
	REGI CLUTCH Operation Check	Click **Start** to operate the REGI CLUTCH. Confirm that you can hear the clutch clicking.
	Dispense Motor Check (Yellow)	Click **Start** to operate the dispense motor for each toner cartridge. Confirm the motor sound.
	Dispense Motor Check (Magenta)	
	Dispense Motor Check (Cyan)	
	Dispense Motor Check (Black)	
Play of Sound		Plays back through your computer's speakers a recording of the normal sound for the currently selected **Machine Check** item.
Start		Click this button to check the operation of the items selected with **Machine Check** and output the results to **Result**.
*[1] When performing the feed roll operation check, remove the standard 250-sheet tray from the printer.		

Paper Wrinkle Check Mode

Purpose:

To determine whether or not paper is wrinkled in the fuser.

This function stops printing before the paper enters the fuser. After you remove the paper inside the printer, check the following:

- If the paper is wrinkled, the wrinkle occurred in the part other than fuser.
- If the paper is not wrinkled, the wrinkle occurred in the fuser.

Values:

	A4 (210 x 297 mm)
	A5 (148 x 210 mm)
	B5 (182 x 257 mm)
	Letter (8.5 x 11")

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Paper Size	**Folio (8.5 x 13")**	Specifies the size of paper to be used by the Paper Wrinkle Check Mode.
	Legal (8.5 x 14")	
	Executive (7.25 x 10.5")	
	Monarch (3.875 x 7.5")	
	Monarch LEF (7.5 x 3.875")	
	DL (110 x 220 mm)	
	DL LEF (220 x 110 mm)	
	C5 (162 x 229 mm)	
	Envelope #10 (4.125 x 9.5")	
Paper Type	**Plain***	Specifies the type of paper to be used by the Paper Wrinkle Check Mode.
	Plain Thick	
	Covers	
	Covers Thick	
	Label	
	Recycled	
	Envelope	
Rear side	**Off***	Does not use the Print side 2 of the paper.
	On	Uses the Print side 2 of the paper.
Color Mode	**Color***	Prints in color mode.
	Black	Prints in monochrome mode.
Start		Click this button to print in the specified paper size, type, and color mode.

Environment Sensor Info

Purpose:

To output the printer's internal environment sensor information to **Result** by pressing the **Get Environment Sensor Info** button.

Developer Stir Mode

Purpose:

To rotate the developer motor and stir the toner in the toner cartridge.

Values:

Developer Stir Mode	Click **Start** to stir the toner.

Refresh Mode

Purpose:

To use up a toner cartridge or PHD unit when you need to replace it before the end of its life, or to stir the toner in a new toner cartridge.

⚠ **CAUTION: Using the Refresh Mode consumes extra toner.**

Values:

Toner Refresh Mode	**Yellow**	Click **Yellow** to clean the yellow cartridge.
	Magenta	Click **Magenta** to clean the magenta cartridge.
	Cyan	Click **Cyan** to clean the cyan cartridge.
	Black	Click **Black** to clean the black cartridge.
PHD Refresh Mode	**PHD**	Click **PHD** to clean the PHD unit.

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Understanding the Printer Menus

- Report/List
- Admin Menu
- Tray Settings
- Stored Print
- Setting Panel Lock

When your printer is configured as a network printer available to a number of users, the access to the Admin Menu menus can be limited. This prevents other users from using the operator panel to inadvertently change a printer user default that has been set by the administrator. In this case, you can access the Stored Print, and Tray Settings menus only.

However, you can use your printer driver to override printer user defaults and select settings for individual print jobs.

To complete print jobs, you may also need to modify tray settings.

Report/List

Use the Report/List menu to print various types of reports and lists.

Printer Setting

Purpose:

To print a list of the current user default values, the installed options, the amount of installed print memory, and the status of printer supplies.

Panel Settings

Purpose:

To print a detailed list of all the settings on the operator panel menus.

PCL Fonts List

Purpose:

To print a sample of the available PCL fonts.

See also:

"Understanding Fonts", "Printing a Font Sample List"

PCL Macro List

Purpose:

To print the information on the downloaded PCL macro.

Job History

Purpose:

To print a detailed list of the print jobs that have been processed. This list contains the last 20 jobs.

Error History

Purpose:

To print a detailed list of paper jams and fatal errors.

Print Meter

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Purpose:

To print the reports for the total number of pages printed. When printed using either the printer control panel or **Dell Printer Configuration Web Tool**, the report will be titled **Print Volume Report**.

Color Test Page

Purpose:

To print a page for testing colors.

Stored Document

Purpose:

To print a list of all files that are stored for Secure Print and Proof Print in the RAM disk.

NOTE: The Stored Document is displayed only when the 512 MB or more optional memory is installed on the printer and RAM Disk under System Settings is enabled.

Admin Menu

Use the **Admin Menu** menu to configure a variety of printer features.

Network

Use the Network menu to change the printer settings affecting jobs sent to the printer through the wired or wireless network.

NOTE: Values marked by an asterisk (*) are the factory default menu settings.

Ethernet

Purpose:

To specify the communication speed and the duplex settings of Ethernet. Any changes made become effective after the printer is turned off and then on.

Values:

Auto*	Detects the Ethernet settings automatically.
10Base Half	Uses 10base-T half-duplex.
10Base Full	Uses 10base-T full-duplex.
100Base Half	Uses 100base-TX half-duplex.
100Base Full	Uses 100base-TX full-duplex.

Status

Purpose:

To display the information on the wireless signal strength. Any change cannot be made on the operator panel to improve the status of the wireless connection.

Values:

Good	Indicates good signal strength.
Acceptable	Indicates marginal signal strength.
Low	Indicates insufficient signal strength.
No Reception	Indicates that no signal is received.

NOTE: This item is only displayed when an optional wireless printer adapter is installed.

Reset Wireless

Purpose:

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To initialize wireless network settings. After executing this function and rebooting the printer, all wireless network settings are reset to their default values.

NOTE: This item is only displayed when an optional wireless printer adapter is installed.

TCP/IP

Purpose:

To configure TCP/IP settings. Any changes made become effective after the printer is turned off and then on.

Values:

IP Mode	**Dual Stack***		Uses both IPv4 and IPv6 to set the IP address.
	IPv4 Mode		Uses IPv4 to set the IP address.
	IPv6 Mode		Uses IPv6 to set the IP address.
IPv4	**Get IP Address**	**AutoIP***	Automatically sets the IP address.
		BOOTP	Uses BOOTP to set the IP address.
		RARP	Uses RARP to set the IP address.
		DHCP	Uses DHCP to set the IP address.
		Panel	Enables the IP address entered on the operator panel.
	IP Address		Sets the IP address allocated to the printer by using the keys on the operator panel.
	Subnet Mask		Sets the subnet mask.
	Gateway Address		Sets the gateway address.
IPsec*[1]			Disables IPsec.
*[1] Only displayed when an optional network protocol adapter is installed and IPsec is enabled.			

Protocol

Purpose:

To enable or disable each protocol. Any changes made become effective after the printer is turned off and then on.

Values:

LPD		**Enable***	Enables the LPD port.
		Disable	Disables the LPD port.
Port9100		**Enable***	Enables the Port9100 port.
		Disable	Disables the Port9100 port.
NetWare*[1]	**NetWare IP**	**Enable***	Uses IP for NetWare.
		Disable	Does not use IP for NetWare.
WSD*[1]		**Enable***	Enables the WSD port.
		Disable	Disables the WSD port.
SNMP	**SNMP UDP**	**Enable***	Enables the UDP.
		Disable	Disables the UDP.
E-Mail Alert		**Enable***	Enables the Email Alerts feature.
		Disable	Disables the Email Alerts feature.
EWS		**Enable***	Enables an access to **Dell Printer Configuration Web Tool** embedded in the printer.
		Disable	Disables an access to **Dell Printer Configuration Web Tool** embedded in the printer.
HTTP-SSL/TLS*[2]		**Enable***	Enable the HTTP-SSL/TLS.
		Disable	Disable the HTTP-SSL/TLS.
*[1] Only displayed when an optional network protocol adapter is installed. *[2] Only displayed when an optional network protocol adapter is installed and which is authenticated by EWS.			

IP Filter

Purpose:

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To block data received from certain IP addresses through the wired or wireless network. You can set up to five IP addresses. Any changes made become effective after the printer is turned off and then on.

Values:

No. n/Address (n is 1-5.)*[1]		Sets the IP address for Filter *n*.
No. n/Mask (n is 1-5.)*[1]		Sets the address mask for Filter *n*.
No. n/Mode (n is 1-5.)*[1]	**Off***	Disable the IP Filter feature for Filter *n*.
	Accept	Accepts an access from the specified IP address.
	Reject	Rejects an access from the specified IP address.
*[1] This item is only available for LPD or Port9100.		

IEEE 802.1x

Purpose:

To disable the IEEE 802.1x authentication. Any changes made become effective after the printer is turned off and then on.

NOTE: This item is only displayed when the IEEE 802.1x authentication is enabled and the optional network protocol adapter is installed, and also when the optional wireless printer adapter is not installed.

Reset LAN

Purpose:

To initialize wired network data stored in NV (non-volatile) memory. After executing this function and rebooting the printer, all wired network settings are reset to their default values.

USB Settings

Use the USB Settings menu to change printer settings affecting a USB port.

NOTE: Values marked by an asterisk (*) are the factory default menu settings.

Port Status

Purpose:

To enable or disable the USB interface. Any changes made become effective after the printer is turned off and then on.

Values:

Enable*	The USB interface is enabled.
Disable	The USB interface is disabled.

System Settings

Use the System Settings menu to configure a variety of printer features.

NOTE: Values marked by an asterisk (*) are the factory default menu settings.

PowerSaver Time

Purpose:

To specify the time for transition to power saver mode.

Values:

Mode1	**3min.***	Specifies the amount of time before the printer enters the power saver mode 1 after it finishes a job.
	1-30min.	
Mode2	**10min.***	Specifies the amount of time before the printer enters the power saver mode 2 after it goes into the power saver mode 1.
	5-60min.	

Enter 3 to put the printer in power saver mode three minutes after it finishes a job. This uses much less energy, but requires more warm-up time for the

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printer. Enter 3 if your printer shares an electrical circuit with room lighting and you notice lights flickering.

Select a high value if your printer is in constant use. Under most circumstances, this keeps the printer ready to operate with minimum warm-up time. Select a value between 1 and 30 minutes for power save mode if you want a balance between energy consumption and a shorter warm-up period.

The printer automatically returns to the standby mode from the power saver mode when it receives data from the computer. You can also return the printer to the standby mode by pressing any button on the operator panel.

Audio Tones

Purpose:

To configure settings for tones emitted by the printer during operation or when a warning message appears.

Values:

Control Panel	**Off***	Does not emit a tone when the operator panel input is correct.
	On	Emits a tone when the operator panel input is correct.
Invalid Key	**Off***	Does not emit a tone when the operator panel input is incorrect.
	On	Emits a tone when the operator panel input is incorrect.
Machine Ready	**Off***	Does not emit a tone when the printer becomes ready.
	On	Emits a tone when the printer becomes ready.
Job Completed	**Off***	Does not emit a tone when a job is complete.
	On	Emits a tone when a job is complete.
Fault Tone	**Off***	Does not emit a tone when a job ends abnormally.
	On	Emits a tone when a job ends abnormally.
Alert Tone	**Off***	Does not emit a tone when a problem occurs.
	On	Emits a tone when a problem occurs.
Out of Paper	**Off***	Does not emit a tone when the printer runs out of paper.
	On	Emits a tone when the printer runs out of paper.
Low Toner Alert	**Off***	Does not emit a tone when toner or some other consumable is low.
	On	Emits a tone when toner or some other consumable is low.
Base Tone	**Off***	Does not emit a tone when the operator panel display is returned to the default settings by scrolling the loop menu.
	On	Emits a tone when the operator panel display is returned to the default settings by scrolling the loop menu.

Fault Time-Out

Purpose:

Specifies in seconds the amount of time the printer should cancel for a job stops abnormally. The print job is cancelled if the time-out time is exceeded.

Values:

60 sec.*	Specifies in seconds the amount of time the printer cancels for a job stops abnormally.
3-300 sec.	
Off	Disables the fault timeout.

Time-Out

Purpose:

To specify in seconds the amount of time the printer should wait for data to arrive from the computer. The print job is cancelled if the time-out time is exceeded.

Values:

30 sec.*	Specifies the amount of time the printer should wait for data to arrive from the computer.
5-300 sec.	
Off	Disables the job timeout.

Panel Language

Purpose:

To determine the language of the text on the operator panel screen.

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Values:

English*	**Français**
Italiano	**Deutsch**
Español	**Dansk**
Nederlands	**Norsk**
Svenska	

Auto Log Print

Purpose:

To automatically print a log of completed jobs after every 20 jobs.

Values:

Off*	Does not automatically output a log of completed jobs.
On	Automatically outputs a log of completed jobs.

Print logs can also be printed using the `Report/List` menu.

NOTE: Restart your printer when you change the settings for the `RAM Disk` menu.

Print ID

Purpose:

To specify a location where the user ID is printed.

Values:

Off*	Does not print the user ID.
Top Left	Prints the user ID on the top left of the page.
Top Right	Prints the user ID on the top right of the page.
Bottom Left	Prints the user ID on the bottom left of the page.
Bottom Right	Prints the user ID on the bottom right of the page.

NOTE: When printing on DL size paper, a part of the user ID may not be printed correctly.

Print Text

Purpose:

To specify whether the printer outputs PDL data, which is not supported by the printer, as text when the printer receives it. Text data is printed on A4 or Letter size paper.

Values:

On*	Prints the received data as text data.
Off	Does not print the received data.

Banner Sheet

Purpose:

To specify the position of banner sheet, and also specify the tray in which the banner sheet is loaded.

NOTE: You can prevent to mingle the documents together by inserting the banner sheet into every document.

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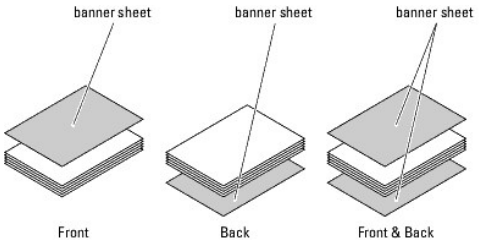

Values:

Insert Position	**Off***	Does not print the banner sheet.
	Front	Prints on the beginning of document.
	Back	Prints on the end of document.
	Front & Back	Prints on both beginning and end of document.
Specify Tray*[1]	**Tray 1***	The banner sheet is loaded in standard 250-sheet tray.
	Tray 2	The banner sheet is loaded in optional 250-sheet feeder.
*[1] Only displayed when an optional 250-sheet feeder is installed on the printer.		

RAM Disk

Purpose:

To allocate memory to the RAM disk file system for the Secure Print and Proof Print features. Any changes made become effective after the printer is turned off and then on.

Values:

Disable*	Does not allocate memory to the RAM disk file system. Secure Print and Proof Print jobs will abort and be recorded to the job log.
50-500MB*[1]	Specifies the amount of memory to allocate to the RAM disk file system. (50 MB step)
50-1000MB*[2]	
*[1] Only displayed when the optional 512 MB memory is installed. *[2] Only displayed when the optional 1024 MB memory is installed.	

NOTE: The RAM Disk menu is displayed only when 512 MB or more memory is installed on the printer.

NOTE: Restart your printer when you change the settings for the RAM Disk menu.

Odd Page 2Sided

Purpose:

Specifies how the odd last page is printed when using duplex printing.

Values:

1 Sided*	Prints the odd last page upside down to the paper.
2 Sided	Prints the odd last page in normal direction to the paper.

Substitute Tray

Purpose:

Specifies whether or not to use another size paper when the paper that is loaded in the specified tray does not match the paper size settings for the current job.

Values:

Off	No tray size substitute accepted.
Larger Size	Substitutes paper of next largest size. When there is no larger paper size, the printer substitutes paper of nearest size.
Nearest Size*	Substitutes paper of nearest size.

mm / inch

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Purpose:

Specifies the default measurement unit displayed after the numeric value on the operator panel.

Values:

millimeter (mm)	Selects millimeter as the default measurement unit.
inch (")	Selects inch as the default measurement unit.

NOTE: The default for mm/inch varies depending on the default Paper Size. The default Paper Size varies depending on country-specific factory default. The default for mm/inch setting is mm when the default Paper Size is A4. The default for mm/inch setting is inch when the default Paper Size is Letter.

Maintenance

Use the Maintenance menu to initialize the NV (non-volatile) memory, configure the plain paper quality adjustment settings, and configure the security settings.

NOTE: Values marked by an asterisk (*) are the factory default menu settings.

F/W Version

Purpose:

To display the printer's firmware version.

Service Tag

Purpose:

To display the printer's service tag.

Paper Density

Purpose:

To specify paper density settings.

Values:

Plain	**Normal***
	Light
Label	**Normal***
	Light

Adjust BTR

NOTICE: The print quality changes depending on the setting values you select for this item.

Purpose:

To specify the transfer roller voltage adjustment for each paper type.

Values:

Plain	**0***
	-6 - +6
Plain Thick	**0***
	-6 - +6
Transparency	**0***
	-6 - +6
Covers	**0***
	-6 - +6
Covers Thick	**0***
	-6 - +6

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Label	**0 ***
	-6 - +6
Coated	**0 ***
	-6 - +6
Coated Thick	**0 ***
	-6 - +6
Envelope	**0 ***
	-6 - +6
Recycled	**0 ***
	-6 - +6

Adjust Fuser

NOTICE: The print quality changes depending on the setting values you select for this item.

Purpose:

To adjusts the fuser temperature setting for each paper type.

Values:

Plain	**0 ***
	-6 - +6
Plain Thick	**0 ***
	-6 - +6
Transparency	**0 ***
	-6 - +6
Covers	**0 ***
	-6 - +6
Covers Thick	**0 ***
	-6 - +6
Label	**0 ***
	-6 - +6
Coated	**0 ***
	-6 - +6
Coated Thick	**0 ***
	-6 - +6
Envelope	**0 ***
	-6 - +6
Recycled	**0 ***
	-6 - +6

Auto Reg Adj

Purpose:

To specify whether to automatically perform color registration adjustment.

Values:

On *	Automatically performs color registration adjustment.
Off	Does not automatically perform color registration adjustment.

Color Reg Adj

Purpose:

To specify whether to manually perform color registration adjustment.
Manual Color Registration Adjustments are required such as after the printer is moved.

NOTE: The `Color Reg Adj` feature can be configured when `Auto Reg Adj` is set to `Off`.

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Values:

Auto Correct	Automatically performs color registration correction.			
ColorRegi Chart	Prints a color registration chart. The color registration chart prints a lattice pattern of yellow, magenta, and cyan lines. On the chart, find the values on the right side that are next to the straightest lines for each of the three colors. If the value for the straightest line is 0, color registration adjustment is not required. If the value for the straightest line is any value other than 0, specify the adjustment values under `Enter Number`.			
Enter Number	**Fast Scan**	**Y**	**-9-+9**	Specifies the values that are found in the color registration chart for Yellow.
		M	**-9-+9**	Specifies the values that are found in the color registration chart for Magenta.
		C	**-9-+9**	Specifies the values that are found in the color registration chart for Cyan.
	Slow Scan	**Y**	**-9-+9**	Specifies the values that are found in the color registration chart for Yellow.
		M	**-9-+9**	Specifies the values that are found in the color registration chart for Magenta.
		C	**-9-+9**	Specifies the values that are found in the color registration chart for Cyan.

Adjust Altitude

Purpose:

To specify the altitude of the location where the printer is installed.

The discharge phenomenon for charging the photo conductor varies with barometric pressure. Adjustments are performed by specifying the altitude of the location where the printer is being used.

NOTICE: An incorrect altitude adjustment setting leads to poor printing quality, incorrect indication of remaining toner, etc.

Values:

0m*	Specifies the altitude of the location where the printer is installed.
1000m	
2000m	
3000m	

Clean Developer

Purpose:

To set whether to stir toner in a new toner cartridge.

Toner Refresh

Purpose:

To clean the toner in each toner cartridge.

Drum Refresh

Purpose:

To clean the surface of the PHD unit.

Init PrintMeter

Purpose:

To initialize the print meter of the printer. When the print meter is initialized, the meter count is reset to 0.

Reset Defaults

Purpose:

To initialize the NV (non-volatile) memory. After executing this function and rebooting the printer, all the menu parameters, except the parameters for the network, are reset to their default values.

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Clear Storage

Purpose:

To clear all files that are stored as Secure, Store, and Proof Print in the optional memory.

NOTE: The Clear Storage menu is only displayed when an optional 256 MB or more memory is installed on your printer and RAM Disk under System Settings is enabled.

Non-Dell Toner

Purpose:

To specify whether or not to use another manufacturer's toner cartridge.

NOTICE: Use of a non-Dell toner cartridge may result in some of the printer's functions to be unavailable, a reduction in print quality, or deterioration of printer's reliability. Use of a new Dell brand toner cartridge is recommended for your printer. The Dell warranty does not cover any problems caused by the use of any accessory, part, or component that is not supplied by Dell.

NOTE: Before you install another manufacture's toner cartridge, be sure to restart the printer.

Values:

Off*	Does not use another manufacturer's toner cartridge.
On	Uses another manufacturer's toner cartridge.

PCL

Use the PCL menu to change printer settings that only affect jobs using the PCL emulation printer language.

NOTE: Values marked by an asterisk (*) are the factory default menu settings.

Paper Tray

Purpose:

To specify the input tray.

Values:

Auto*	Automatically selects a tray according to the paper size and type settings of the printing job.
Tray 1	The paper is fed from the standard 250-sheet tray.
Tray 2*[1]	The paper is fed from the optional 250-sheet feeder.
SSF	The paper is fed from the single sheet feeder.
*[1] Only displayed when an optional 250-sheet feeder is installed on the printer.	

Paper Size

Purpose:

To specify the default paper size.

Values:

A4*[1]	**A5**
B5	**Letter*[1]**
8.5x13"	**Legal**
Executive	**Monarch**
DL	**C5**
Envelope #10	**Custom Size**
*[1] Denotes country-specific factory default values.	

NOTE: Selecting a custom size for the paper size prompts you to enter a custom length and width.

Orientation

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Purpose:

To specify how text and graphics are oriented on the page.

Values:

Portrait*	Prints text and graphics parallel to the short edge of the paper.
Landscape	Prints text and graphics parallel to the long edge of the paper.

2 Sided

Purpose:

To set duplexing as the default for all print jobs. (Select **Duplex** from the printer driver to duplex only specific jobs.)

NOTE: The 2 Sided menu is only available when the optional duplexer is installed on the printer.

Values:

2 Sided Print	**Off***	Prints on one side of the paper.
	On	Prints on both sides of the paper.
Binding Edge	**Flip long edge***	Assumes binding along the long edge of the page. (Left edge for portrait orientation and top edge for landscape orientation)
	Flip short edge	Assumes binding along the short edge of the page. (Top edge for portrait orientation and left edge for landscape orientation)

NOTE: For details on the **Flip long edge** and **Flip short edge** options, see "Flip on Long Edge" and "Flip on Short Edge".

Font

Purpose:

To specify the default font from the fonts registered in the printer.

Values:

CG Times	**CG Times It**	**CG Times Bd**
CG Times BdIt	**Univers Md**	**Univers MdIt**
Univers Bd	**Univers BdIt**	**Univers MdCd**
Univers MdCdIt	**Univers BdCd**	**Univers BdCdIt**
AntiqueOlv	**AntiqueOlv It**	**AntiqueOlv Bd**
CG Omega	**CG Omega It**	**CG Omega Bd**
CG Omega BdIt	**GaramondAntiqua**	**Garamond Krsv**
Garamond Hlb	**GaramondKrsvHlb**	**Courier***
Courier It	**Courier Bd**	**Courier BdIt**
LetterGothic	**LetterGothic It**	**LetterGothic Bd**
Albertus Md	**Albertus XBd**	**Clarendon Cd**
Coronet	**Marigold**	**Arial**
Arial It	**Arial Bd**	**Arial BdIt**
Times New	**Times New It**	**Times New Bd**
Times New BdIt	**Symbol**	**Wingdings**
Line Printer	**Times Roman**	**Times It**
Times Bd	**Times BdIt**	**Helvetica**
Helvetica Ob	**Helvetica Bd**	**Helvetica BdOb**
CourierPS	**CourierPS Ob**	**CourierPS Bd**
CourierPS BdOb	**SymbolPS**	**Palatino Roman**
Palatino It	**Palatino Bd**	**Palatino BdIt**
ITCBookman Lt	**ITCBookman LtIt**	**ITCBookmanDm**
ITCBookmanDm It	**HelveticaNr**	**HelveticaNr Ob**
HelveticaNr Bd	**HelveticaNrBdOb**	**N C Schbk Roman**
N C Schbk It	**N C Schbk Bd**	**N C Schbk BdIt**
ITC A G Go Bk	**ITC A G Go BkOb**	**ITC A G Go Dm**
ITC A G Go DmOb	**ZapfC MdIt**	**ZapfDingbats**

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Symbol Set

Purpose:

To specify a symbol set for a specified font.

Values:

ROMAN-8*	ISO L1	ISO L2
ISO L5	ISO L6	PC-8
PC-8 DN	PC-775	PC-850
PC-852	PC-1004	PC-8 TK
WIN L1	WIN L2	WIN L5
DESKTOP	PS TEXT	MC TEXT
MS PUB	MATH-8	PS MATH
PI FONT	LEGAL	ISO-4
ISO-6	ISO-11	ISO-15
ISO-17	ISO-21	ISO-60
ISO-69	WIN 3.0	WINBALT
SYMBOL	WINGDINGS	DNGBTSMS

Font Size

Purpose:

To specify the font size for scalable typographic fonts.

Values:

12.00*	Specify the values in increments of 0.25.
4.00 - 50.00	

Font size refers to the height of the characters in the font. One point equals approximately 1/72 of an inch.

NOTE: The Font Size menu is only displayed for typographic fonts.

See also:

"Pitch and Point Size"

Font Pitch

Purpose:

To specify the font pitch for scalable monospaced fonts.

Values:

10.00*	Specify the value in increments of 0.01.
6.00-24.00	

Font pitch refers to the number of fixed-space characters in a horizontal inch of type. For nonscalable monospaced fonts, the pitch is displayed, but cannot be changed.

NOTE: The Font Pitch menu is only displayed for fixed or monospaced fonts.

See also:

"Pitch and Point Size"

Form Line

Purpose:

To set the number of lines in a page.

Values:

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60*[1]	Specify the value in increments of 1.
5-128	
*[1] Denotes country-specific factory default values.	

The printer sets the amount of space between each line (vertical line spacing) based on the Form Line and Orientation menu items. Select the correct Form Line and Orientation before changing Form Line.

See also:

"Orientation"

Quantity

Purpose:

To set the default print quantity. (Set the number of copies required for a specific job from the printer driver. Values selected from the printer driver always override values selected from the operator panel.)

Values:

1*	Specify the value in increments of 1.
1-999	

Image Enhance

Purpose:

To specify whether to perform the image enhancement feature. Image enhancement is a feature that makes the boundary line between black and white smoother to decrease jagged edges and enhance the visual appearance.

Values:

On*	Enables the Image Enhancement feature.
Off	Disables the Image Enhancement feature.

Hex Dump

Purpose:

To help isolate the source of a print job problem. With Hex Dump selected, all data sent to the printer is printed in hexadecimal and character representation. Control codes are not executed.

Values:

Disable*	Disables the Hex Dump feature.
Enable	Enables the Hex Dump feature.

Draft Mode

Purpose:

To save toner by printing in the draft mode. The print quality is reduced when printing in the draft mode.

Values:

Disable*	Does not print in the draft mode.
Enable	Prints in the draft mode.

LineTermination

Purpose:

To add the line termination commands.

Values:

Off*	The line termination command is not added. CR=CR, LF=LF, FF=FF

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Add-LF	The LF command is added. CR=CR-LF, LF=LF, FF=FF
Add-CR	The CR command is added. CR=CR, LF=CR-LF, FF=CR-FF
CR-XX	The CR and LF commands are added. CR=CR-LF, LF=CR-LF, FF=CR-FF

Default Color

Purpose:

To specify the color mode to Color or Black. This setting is used for a print job which does not specify a print mode.

Value:

Black*	Prints in the black and white mode.
Color	Prints in the color mode.

Panel Settings

Use the Panel Settings menu to set a password to limit access to the menus. This prevents items from being changed accidentally.

NOTE: Values marked by an asterisk (*) are the factory default menu settings.

See also:

"Setting Panel Lock"

Panel Lock

Purpose:

To limit access to the menus.

Values:

Disable*	Does not limit access to the menus.
Enable	Limits access to the menus.

Change Password

Purpose:

To set a password to limit access to the menus.

Values:

0000*	Sets or changes the password required to access Admin Menu.
0000-9999	

NOTE: This item is only displayed when Panel Lock is set to Enable.

Tray Settings

Use the Tray Settings menu to define the print media loaded in the standard 250-sheet tray or optional 250-sheet feeder.

NOTE: Values marked by an asterisk (*) are the factory default menu settings.

Display Popup

Purpose:

To specify whether or not to display a popup menu when paper is loaded in the standard 250-sheet tray or optional 250-sheet feeder.

Values:

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Paper Tray	**On**	Specifies the size and type of paper loaded in the standard 250-sheet tray or optional 250-sheet feeder.
	Off*	Size and type of paper loaded in the standard 250-sheet tray or optional 250-sheet feeder.

Use this menu item to:

- Optimize print quality for the specified paper.
- Select paper source through your software program by selecting type and size.
- Automatically link the standard 250-sheet tray and optional 250-sheet feeder. The printer automatically links these trays containing the same type and size of paper, if you have set the Paper Type to the correct values.

Tray 1

Purpose:

To specify the paper loaded in the standard 250-sheet tray.

Values:

Paper Type	**Plain***
	Plain Thick
	Covers
	Covers Thick
	Label
	Envelope
	Recycled
	Plain S2*[1]
	Plain Thick S2*[1]
	Recycled S2*[1]
Paper Size	**A4***[2]
	A5
	B5
	Letter*[2]
	8.5x13"
	Legal
	Executive
	Monarch
	Monarch LEF
	DL
	DL LEF
	C5
	Envelope #10
	Custom Size
*[1] "S2" means the print side 2 of the paper. *[2] Denotes country-specific factory default values.	

Tray 2

Purpose:

To specify the paper loaded in the optional 250-sheet feeder.

Values:

Paper Type	**Plain***
	Plain Thick
	Recycled
	Plain S2*[1]
	Recycled S2*[1]
	Plain Thick S2*[1]
	A4*[2]

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Paper Size	**A5**
	B5
	Letter*2
	8.5x13"
	Legal
	Executive
*1 "S2" means the print side 2 of the paper. *2 Denotes country-specific factory default values.	

Stored Print

This Stored Print menu provides applicable printing services such as Secure Print and Proof Print.

NOTE: The Stored Print menu is displayed only when the optional 512 MB or more memory is installed on the printer and RAM Disk under System Settings is enabled.

Secure Print

Purpose:

To print confidential jobs. The printer can hold the job in memory until you arrive at the printer and type the password on the operator panel.

Values:

Del after Print	Prints the job, and then deletes it from print memory.
Print and Save	Prints the job, and then saves it in print memory.
Delete	Deletes the job from print memory.

Proof Print

Purpose:

To print only one copy and check the print result before printing all of the copies. This prevents a large number of misprinted copies from being printed at one time.

Values:

Del after Print	Prints the job, and then deletes it from print memory.
Print and Save	Prints the job, and then saves it in print memory.
Delete	Deletes the job from print memory.

Setting Panel Lock

This feature prevents unauthorized personnel from changing settings made by the administrator. For regular printing, items can be selected from the menu and printer settings remain unchanged. For regular printing, items can be configured using the printer driver.

NOTE: Disabling the operator panel menus does not prevent access to the Stored Print and Tray Settings menus.

1. Press **Menu** button.
2. Press ⌄ button until Admin Menu appears, and then press ✓ **(Set)** button.
3. Press ⌄ button until Panel Settings appears, and then press ✓ **(Set)** button.
4. Panel Lock is displayed. Press ✓ **(Set)** button.
5. Press ⌄ button until Enable appears, and then press ✓ **(Set)** button.
6. Press ‹ button.

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7. Press ⌄ button until Change Password appears, and then press ✓ **(Set)** button.
8. Enter the old password (when you enter it for the first time after doing the settings, enter 0000), and then press ✓ **(Set)** button.
9. Enter the new password, and then press ✓ **(Set)** button.
10. Reenter the password to confirm the password that you entered, and then press ✓ **(Set)** button.
    The password has been changed.

NOTE: If you forget your password, turn off the printer. Then, while holding **Menu** button, turn on the printer. Continue to hold **Menu** button until the display indicates Init Password Are you sure? Release **Menu** button and press ✓ **(Set)** button. Press ‹ button to select Yes, then press ✓ **(Set)** button. The display will briefly indicate the password has been initialized. This will recover the factory default panel password.

NOTE: If Panel Lock is Enable, the factory-default panel password is 0000.

See also:

"Change Password"

Disabling Panel Lock

1. Press **Menu** button.
2. Press ⌄ button until Admin Menu appears, and then press ✓ **(Set)** button.
3. Enter the password, and then press ✓ **(Set)** button.
4. Press ⌄ button until Panel Settings appears, and then press ✓ **(Set)** button.
5. Panel Lock is displayed. Press ✓ **(Set)** button.
6. Press ⌄ button until Disable appears, and then press ✓ **(Set)** button.

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Understanding Your Printer Software

Printer Settings Utility

Use the *Drivers and Utilities* CD that shipped with your printer to install a combination of software programs, depending on your operating system.

Printer Status Window

The **Printer Status** window alerts you when there is a warning or when an error occurs, for example, when a paper jam occurs or toner is running low.

By default, the **Printer Status** window launches only when an error occurs. When an error occurs, the error message appears on the **Printer Status** window. You can set the **Printer Status** window to always launch when printing in **Printing Status Window Properties**.

You can also check toner level, quantity of paper remaining or the configuration of options for the local printer.

Status Monitor Console

Use the **Status Monitor Console** to manage multiple instances of the **Status Window** for a particular printer.

Select a printer from the list view (or **Printer Selection**) by clicking its name to open a **Status Window** for a particular printer.

Dell Supplies Management System™

You can launch the **Dell Supplies Management System** dialog box from the **All Programs** menu or the desktop icon.

You can order consumables by phone or from the web.

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Additional Color Laser Software**→ **Dell Supplies Management System**.

   The **Dell Supplies Management System** window appears.

2. Select your printer from the **Select Printer Model** list.

3. If you are ordering from the Web:

   a. When you cannot get information from the printer automatically by two-way communication, a window that prompts you to type the Service Tag number appears. Type your Dell printer Service Tag number in the field provided.

      Your Service Tag number is located inside the side cover of your printer.

   b. Select a URL from the **Select Reorder URL** list.

   c. Click **Visit Dell printer supplies ordering web site**.

4. If ordering by phone, call the number that appears under the **Order by Phone** heading.

User Setup Disk Creating Tool

The **User Setup Disk Creating Tool** program located in the **MakeDisk** folder of the **Utilities** folder on the *Drivers and Utilities* CD and the printer drivers located on the *Drivers and Utilities* CD are used to create driver installation packages that contain custom driver settings. A driver installation package can contain a group of saved printer driver settings and other data for things such as:

- Print orientation and Multiple Up (document settings)
- Watermarks
- Font references

If you want to install the printer driver with the same settings to multiple computers running the same operating system, create a setup disk in a floppy disk or in a server on the network. Using the setup disk that you have created will reduce the amount of work required when installing the printer driver.

- Install in advance the Dell™ 2130cn Color Laser Printer printer driver in the computer on which the setup disk is to be created.
- The setup disk can only be used on the computers running the same operating system on which the disk was created. Create a separate setup disk for different types of operating systems.

Software Update

The firmware and/or driver updates can be downloaded from the Dell Support website located at **support.dell.com**.

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Printer Settings Utility

Using the **Quick Launch Utility** window, you can open **Status Window**, **Tool Box**, **Updater** and **Troubleshooting**.

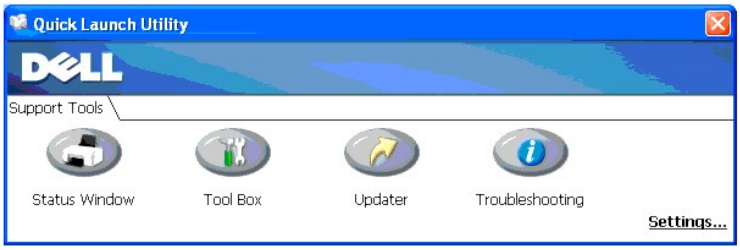
When you install the Dell software, the **Quick Launch Utility** is automatically installed.

For information about installing the software, see "Setting Up for Shared Printing".

To open the **Quick Launch Utility** window:

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Additional Color Laser Software**→ **Quick Launch Utility.**

   The **Quick Launch Utility** dialog box opens.



2. The **Quick Launch Utility** window provides four buttons; **Status Window**, **Tool Box**, **Updater**, and **Troubleshooting.**

   To exit, click the X button at the top-right of the window.

   For details, click the **Help** button of each application.

Status Window

The **Status Window** button opens the **Printing Status** Window. See "Printer Status Window".

Tool Box

You can use the **Tool Box** to specify various settings for the printer. See "Understanding the Tool Box Menus".

Updater

The **Updater** button updates the settings for the printer driver.

Troubleshooting

The **Troubleshooting** button opens the Troubleshooting Guide, which allows you to recover problems by yourself.

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Printing

- Tips for Successful Printing
- Sending a Job to Print
- Canceling a Print Job
- Printing a Report Page
- Using the Print and Hold Function

This chapter covers tips for printing, how to print certain lists of information from your printer, and how to cancel a job.

Tips for Successful Printing

Tips on Storing Print Media

Store your print media properly. For more information, see "Storing Print Media".

Avoiding Paper Jams

NOTE: It is recommended that you try a limited sample of any print media you are considering using with the printer before purchasing large quantities.

By selecting appropriate print media and loading it properly, you can avoid paper jams. See the following instructions on loading print media:

- "Loading Print Media in the Standard 250-Sheet Tray and Optional 250-Sheet Feeder"
- "Loading the Single Sheet Feeder"
- "Avoiding Jams"

If you experience a jam, see "Troubleshooting Guide" for instructions.

Sending a Job to Print

To support all of the printer features, use the printer driver. When you choose **Print** from a software program, a window representing the printer driver opens. Select the appropriate settings for the specific job you are sending to print. Print settings selected from the driver override the default menu settings selected from the operator panel or Tool Box.

You may need to click **Preferences** from the initial **Print** box to see all of the available system settings you can change. If you are not familiar with a feature in the printer driver window, open the online Help for more information.

To print a job from a typical Windows® application:

1. Open the file you want to print.
2. From the **File** menu, select **Print**.
3. Verify that the correct printer is selected in the dialog box. Modify the system settings as needed (such as the pages you want to print or the number of copies).
4. Click **Preferences** to adjust system settings not available from the first screen, and then click **OK**.
5. Click **OK** or **Print** to send the job to the selected printer.

Canceling a Print Job

There are several methods for canceling a print job.

Canceling From the Operator Panel

To cancel a job after it has started printing:

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1. Press **Cancel**.

   NOTE: Printing is canceled only for the current job. All the following jobs will continue to print.

Canceling a Job From the Computer Running Windows

Canceling a Job From the Taskbar

When you send a job to print, a small printer icon appears in the right corner of the taskbar.

1. Double-click the printer icon.

   A list of print jobs appears in the printer window.

2. Select the job you want to cancel.

3. Press **Delete** on the keyboard.

Canceling a Job From the Desktop

1. Minimize all programs to reveal the desktop.

   Click **start**→ **Printers and Faxes.**

   Click **Start**→ **Control Panel**→ **Hardware and Sound**→ **Printers** (for Windows Vista®).

   Click **Start**→ **Control Panel**→ **Printers** (for Windows Server® 2008).

   Click **Start**→ **Settings**→ **Printers** (for Windows 2000).

   A list of available printers appears.

2. Double-click the printer you selected when you sent the job.

   A list of print jobs appears in the printer window.

3. Select the job you want to cancel.

4. Press **Delete** on the keyboard.

Printing a Report Page

By using the **Report/List** menu, you can print a various of settings for your printer including printer settings, panel setting, and font list. The following describes two examples of printing from the **Report/List** menu.

Printing a Printer Settings Page

To verify detailed printer settings, print a printer settings page. A printed printer settings page also allows you to verify whether or not options have been installed properly.

See "Understanding the Printer Menus" or "Understanding the Tool Box Menus" to identify the display and operator panel buttons if you need help.

When Using the Operator Panel

1. Press **Menu** button.

2. Press ⌄ button until Report/List appears, and then press ✓ **(Set)** button.

3. Printer Setting is displayed, and then press ✓ **(Set)** button.

   The printer settings page is printed.

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When Using the Tool Box

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

   The **Select Printer** dialog box opens.

2. Click the name of this printer listed in **Printer Name**, and then click **OK**.

   The **Tool Box** opens.

3. Click the **Printer Settings Report** tab.

4. Select **Reports** from the list at the left side of the page.

   The **Reports** page is displayed.

5. Click the **Printer Settings** button.

   The printer settings page is printed.

The message Printer Settings Printing appears while the page prints. The printer returns to the standby mode after the printer settings page prints.

If any other message appears when you print this page, see the online Help for more information.

Printing a Font Sample List

To print samples of all the fonts currently available for your printer:

When Using the Operator Panel

1. Press **Menu** button.

2. Press ⌄ button until Report/List appears, and then press ✓ **(Set)** button.

3. Press ⌄ button until PCL Fonts List appears.

4. Press ✓ **(Set)** button.

   The PCL fonts list is printed.

Using the Print and Hold Function

When you send a job to the printer, you can specify in the driver that you want the printer to hold the job in memory. When you are ready to print the job, you must go to the printer and use the operator panel menus to identify which job in the memory you want to print. You can use this function to print a confidential job (Secure Print), or verify one copy before printing additional copies (Proof Print).

NOTE: The printer holds the job until you delete it by using the operator panel or you turn off the printer. The data on memory is cleared when the printer is turned off.

NOTE: Print and Hold functions require a minimum of 768 MB available printer memory. Also, you need to configure the RAM disk settings on the operator panel and the printer driver.

NOTE: Depending on the documents, its job may be too big for the available memory. If a print job is too big for the available memory, an error occurs.

NOTE: If a document name is not assigned to your print job in the printer driver, the job's name will be identified using the PC's time and date of submission to distinguish it from other jobs you have stored under your name.

Printing and Deleting Held Jobs

Once held jobs are stored in print memory, you can use the operator panel to specify what you want to do with one or more of the jobs. You can select either Secure Print or Proof Print from "Stored Print". Then, you select your user name from a list. If you select Secure Print, you must type the password you specified in the driver when you sent the job. See "Secure Print" for more information.

From either the Secure Print or Proof Print menu items, you have three choices:

- Print and Save

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- Del after Print
- Delete

NOTE: To send a job to print as Secure Printing or Proof Printing, select **Secure Print** or **Proof Print** in **Job Type** in the **Paper/Output** tab of the **Printing Preferences** dialog box.

Printing Held and Proof Print Jobs

When Using the Operator Panel

1. Press **Menu** button.
2. Press ⌄ button until Report/List appears, and then press ✓ **(Set)** button.
3. Press ⌄ button until Stored Document appears, and then press ✓ **(Set)** button.

   The stored documents page is printed.

Stored Print

If you send a Stored Print job, the printer does not print the job immediately, but stores the job in memory so you can print the job later. See "Printing and Deleting Held Jobs" for more information.

NOTE: The printer holds the job until you delete it by using the operator panel or you turn off the printer.

NOTICE: When you select Del after Print, the held job is automatically deleted after printing.

Proof Print

If you send a Proof Print job, the printer prints one copy and holds the remaining copies you requested from the driver in print memory. Use Proof Print function to examine the first copy to see if it is satisfactory before printing the remaining copies.

See "Printing and Deleting Held Jobs" if you need help printing the additional copies stored in memory.

NOTE: The printer holds the job until you delete it by using the operator panel or you turn off the printer. The data on memory is cleared when the printer is turned off.

NOTICE: When you select Del after Print, the held job is automatically deleted after printing.

Secure Print

When you send a job to the printer, you can specify a password from the driver. The password must be between 0 and 12 digits using numbers 0-9. The job is then held in print memory until you enter the same numeric password from the operator panel and choose to print or delete the job. This function is called "Stored Print". This ensures that the job does not print until you are there to retrieve it, and no one else using the printer can print the job.

When you select Secure Print from Stored Print after selecting your user name, the following prompt is displayed:

```
[**********]
```

Use the buttons on the operator panel to enter the numeric password associated with your confidential job. As you enter the password, the password you entered is displayed to ensure confidentiality.

If you enter an invalid password, the message Wrong Password appears. Wait three seconds, or Press ✓ **(Set)** or **Cancel** to return to the screen for user selection.

When you enter a valid password, you have access to all print jobs matching the user name and password you entered. The print jobs matching the password you entered appear on the screen. You can then choose to print or delete jobs matching the password you entered. (See "Printing and Deleting Held Jobs" for more information.)

NOTE: The printer holds the job until you delete it by using the operator panel or you turn off the printer. The data on memory is cleared when the printer is turned off.

NOTICE: When you select Del after Print, the held job is automatically deleted after printing.

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Setting Up for Shared Printing

- Point and Print
- Peer-to-Peer

You can share your new printer on the network using the *Drivers and Utilities* CD that shipped with your printer, or using Microsoft® point and print or peer-to-peer method. However, if you use one of the Microsoft methods, you will not have all the features, such as the status monitor and other printer utilities, that are installed with the *Drivers and Utilities* CD.

To share a locally-attached printer on the network, you need to share the printer, and then install the shared printer on network clients:

NOTE: The following are options you need to buy separately for shared printing.

- Ethernet cable

Windows® XP, Windows XP 64-bit Edition, Windows Server® 2003, Windows Server 2003 Enterprise x64 Edition, Windows 2000

1. Click **start**→ **Printers and Faxes** (**Printers** for Windows 2000).
2. Right-click this printer icon and select **Properties**.
3. From the **Sharing** tab, check the **Share this printer** (**Share as** for Windows 2000) check box, and then type a name in the **Share name** (**Share as** for Windows 2000) text box.
4. Click **Additional Drivers** and select the operating systems of all network clients printing to this printer.
5. Click **OK**.

   If you are missing files, you will be prompted to insert the server operating system CD.

Windows Vista®, Windows Vista 64-bit Edition

1. Click **Start**→ **Control Panel**→ **Hardware and Sound**→ **Printers**.
2. Right-click this printer icon and select **Sharing**.
3. Click **Change sharing options** button.
4. The dialog box displaying "Windows needs your permission to continue" appears.
5. Click **Continue** button.
6. Check the **Share this printer** check box, and then type a name in the **Share name** text box.
7. Click **Additional Drivers** and select the operating systems of all network clients printing to this printer.
8. Click **OK**.

Windows Server 2008, Windows Server 2008 Enterprise x64 Edition

1. Click **Start**→ **Control Panel**→ **Printers**.
2. Right-click this printer icon and select **Sharing**.
3. Check the **Share this printer** check box, and then type a name in the **Share name** text box.
4. Click **Additional Drivers** and select the operating systems of all network clients printing to this printer.
5. Click **OK**.

To check that the printer is successfully shared:

- Ensure that the printer object in the **Printers** or **Printers and Faxes** folder is shared. A icon of sharing is shown underneath the printer icon.

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- Browse **Network** or **My Network Places**. Find the host name of the server and look for the shared name you assigned to the printer.

Now that the printer is shared, you can install the printer on network clients using the point and print method or the peer-to-peer method.

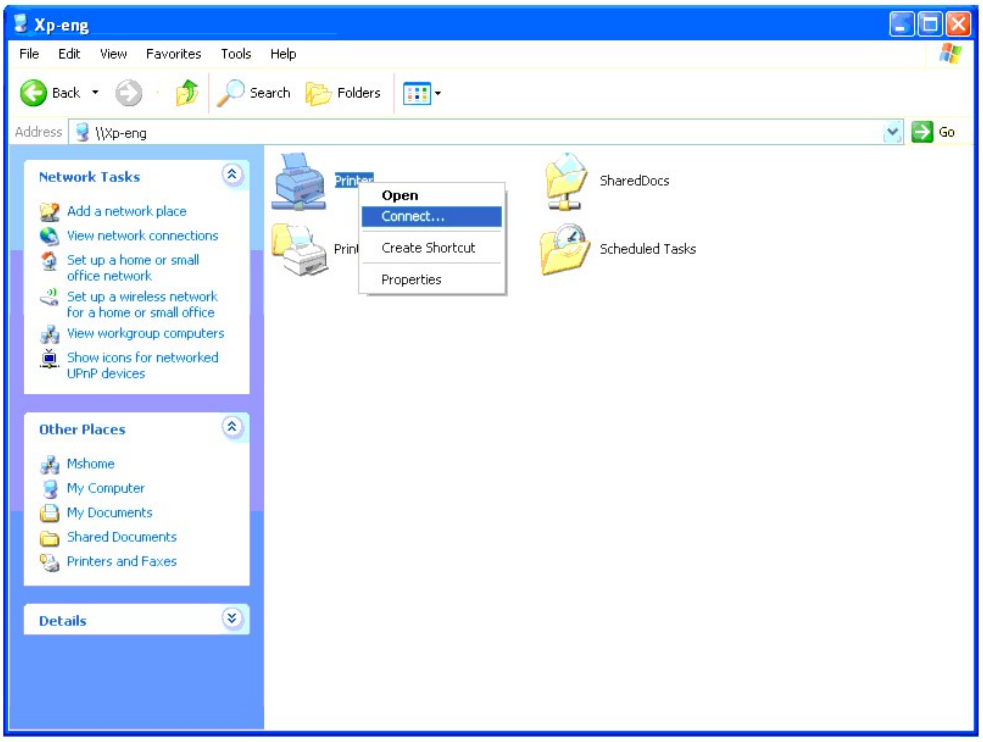
Point and Print

This method is usually the best use of system resources. The server handles driver modifications and print job processing. This lets network clients return to their programs much faster.

If you use the point and print method, a subset of driver information is copied from the server to the client computer. This is just enough information to send a print job to the printer.

Windows XP, Windows XP 64-bit Edition, Windows Server 2003, Windows Server 2003 Enterprise x64 Edition, Windows 2000

1. On the Windows desktop of the client computer, double-click **My Network Places**.
2. Locate the host name of the server computer, and then double-click the host name.
3. Right-click the shared printer name, and then click **Connect**.



Wait for the driver information to copy from the server computer to the client computer, and for a new printer object to be added to the **Printers and Faxes** (**Printers** for Windows 2000) folder. The copy time varies, based on network traffic and other factors.

Close **My Network Places**.

4. Print a test page to verify installation.
   a. Click **start**→ **Printers and Faxes** (**Printers** for Windows 2000).
   b. Select the printer you just created.
   c. Click **File**→ **Properties**.
   d. From the **General** tab, click **Print Test Page**.

   When a test page prints successfully, installation is complete.

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Windows Vista, Windows Vista 64-bit Edition

1. On the Windows desktop of the client computer, click **Start**→ **Network**.
2. Locate the host name of the server computer, and then double-click the host name.
3. Right-click the shared printer name, and then click **Connect**.
4. Click **Install driver**.
5. Click **Continue** in **User Account Control** dialog.
6. Wait for the driver information to copy from the server computer to the client computer, and for a new printer object to be added to the **Printers** folder. The time this takes varies, based on network traffic and other factors.
7. Print a test page to verify installation.
   a. Click **Start**→ **Control Panel**→ **Hardware and Sound**.
   b. Select **Printers**.
   c. Right-click the printer you just created and select **Properties**.
   d. From the **General** tab, click **Print Test Page**.

   When a test page prints successfully, installation is complete.

Windows Server 2008, Windows Server 2008 Enterprise x64 Edition

1. On the Windows desktop of the client computer, click **Start**→ **Network**.
2. Locate the host name of the server computer, and then double-click the host name.
3. Right-click the shared printer name, and then click **Connect**.
4. Click **Install driver**.
5. Wait for the driver information to copy from the server computer to the client computer, and for a new printer object to be added to the **Printers** folder. The time this takes varies, based on network traffic and other factors.
6. Print a test page to verify installation.
   a. Click **Start**→ **Control Panel**.
   b. Select **Printers**.
   c. Right-click the printer you just created and select **Properties**.
   d. From the **General** tab, click **Print Test Page**.

   When a test page prints successfully, installation is complete.

Peer-to-Peer

If you use the peer-to-peer method, the printer driver is fully installed on each client computer. Network clients retain control of driver modifications. The client computer handles the print job processing.

Windows XP, Windows XP 64-bit Edition, Windows Server 2003, Windows Server 2003 Enterprise x64 Edition, Windows 2000

1. Click **start**→ **Printers and Faxes** (**Printers** for Windows 2000).
2. Click **Add a Printer** to launch the **Add Printer** wizard.
3. Click **Next**.
4. Select **A network printer, or a printer attached to another computer**, and then click **Next** (For Windows 2000, select the network printer from the **Shared printers** list). If the printer is not listed, type in the path of the printer in the text box.

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Add Printer Wizard
Specify a Printer
If you don't know the name or address of the printer, you can search for a printer that meets your needs.
What printer do you want to connect to?
Find a printer in the directory
Connect to this printer (or to browse for a printer, select this option and click Next):
Name:
\\server\printer
Example: \\server\printer
Connect to a printer on the Internet or on a home or office network:
URL:
Example: http://server/printers/myprinter/.printer
< Back
Next >
Cancel
For example: \\<server host name>\<shared printe
name>

The server host name is the name of the server computer that identifies it to the network. The shared printer name is the name assigned during the server installation process.

5. Click **Browse for a printer**, and then click **Next** (For Windows 2000, click **OK**).

   If this is a new printer, you may be prompted to install a printer driver. If no system driver is available, then you will need to provide a path to available drivers.

6. Select whether you want this printer to be the default printer for the client, click **Next**, and then click **Finish** (For Windows 2000, click **Finish**).

7. Print a test page to verify installation:

   a. Click **start**→ **Settings**→ **Printers and Faxes** (**Printers** for Windows 2000).

   b. Select the printer you just created.

   c. Click **File**→ **Properties**.

   d. From the **General** tab, click **Print Test Page**.

   When a test page prints successfully, installation is complete.

Windows Vista, Windows Vista 64-bit Edition

1. Click **Start**→ **Control Panel**→ **Hardware and Sound**→ **Printers**.

2. Click **Add a Printer** to launch the **Add Printer** wizard.

3. Select **Add a network**, **wireless or Bluetooth printer**, and then click **Next**. If the printer is listed, select the printer and click **Next**, or select **The printer that I want isn't listed** and type in the path of the printer in the **Select a shared printer by name** text box and click **Next**.

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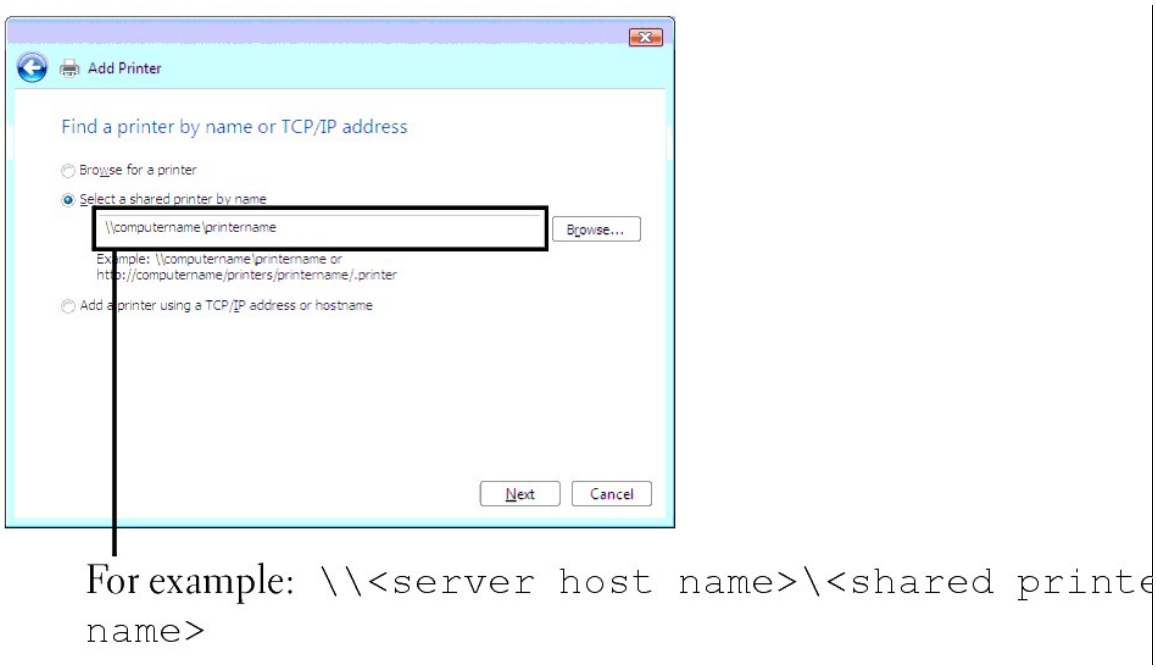

The server host name is the name of the server computer that identifies it to the network. The shared printer name is the name assigned during the server installation process.

4. If this is a new printer, you may be prompted to install a printer driver. If no system driver is available, then you will need to provide a path to available drivers.
5. Select whether you want this printer to be the default printer for the client, click **Next**.
6. If you want to verify installation then click **Print a test page**.
7. Click **Finish**.

   When a test page prints successfully, installation is complete.

Windows Server 2008, Windows Server 2008 Enterprise x64 Edition

1. Click **Start**→ **Control Panel**→ **Printers**.
2. Click **Add a Printer** to launch the **Add Printer wizard**.
3. Select **Add a network**, **wireless or Bluetooth printer**, and then click **Next**.

   If the printer is listed, select the printer and click **Next**, or select **The printer that I want isn't listed** and type in the path of the printer in the **Select a shared printer by name** text box and click **Next**.

   For example: `\\<server host name>\<shared printer name>`

   The server host name is the name of the server computer that identifies it to the network. The shared printer name is the name assigned during the server installation process.

4. If this is a new printer, you may be prompted to install a printer driver. If no system driver is available, then you will need to provide a path to available drivers.
5. Select whether you want this printer to be the default printer for the client, click **Next**.
6. If you want to verify installation then click **Print a test page**.
7. Click **Finish**.

   When a test page prints successfully, installation is complete.

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Understanding Fonts

- Typefaces and Fonts
- Bitmapped and Scalable Fonts
- Resident Fonts
- Symbol Sets

Typefaces and Fonts

A font is a set of characters and symbols created with a distinct design. The distinct design is called a *typeface*. The typefaces you select add personality to a document. Well-chosen typefaces make a document easier to read.

The printer has numerous resident fonts in PCL 5/PCL 6. See "Resident Fonts" for a listing of all resident fonts.

Weight and Style

Typefaces are often available in different weights and styles. These variations modify the original typeface so you can, for example, emphasize important words in text or highlight book titles. The different weights and styles are designed to complement the original typeface.

Weight refers to the thickness of the lines that form the characters. Thicker lines result in darker characters. Some words commonly used to describe the weight of a typeface are bold, medium, light, black, and heavy.

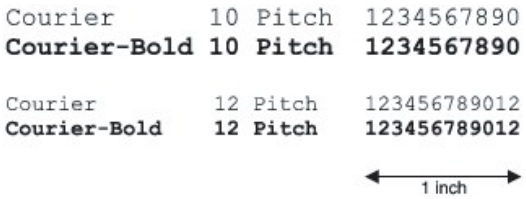
Style refers to other typeface modifications, such as tilt or character width. Italic and oblique are styles where the characters are tilted. Narrow, condensed, and extended are three common styles that modify the character widths.

Some fonts combine several weight and style modifications; for example, Helvetica BdOb. A group of several weight and style variations of a single typeface is called a *typeface family*. Most typeface families have four variations: regular, italic (oblique), bold, and bold italic (bold oblique). Some families have more variations, as the following illustration for the Helvetica typeface family shows:

Pitch and Point Size

The size of a font is specified as either a pitch or point size, depending on whether the font is fixed space or proportional.

In *fixed space* fonts, each character has the same width. *Pitch* is used to specify the size of fixed space fonts. It is a measure of the number of characters that will print in one horizontal inch of type. For example, all 10-pitch fonts print 10 characters per inch (cpi) and all 12-pitch fonts print 12 cpi:



In *proportional* (or *typographic*) fonts, every character can have a different width. Since proportional fonts have characters with different widths, the font size is specified in point size, not pitch. *Point size* refers to the height of the characters in the font. A *point* is defined as 1/72 inch. The characters in a font printed at 24 point will be twice as large as the characters in the same font printed at 12 point.

The following illustration shows samples of a font printed in different point sizes:

The point size of a font is defined as the distance from the top of the tallest character in the font to the bottom of the lowest character in the font. Due to the definition of point size, different fonts printed at the same point size may appear quite different in size. This is because there are other font parameters that

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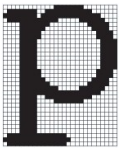
affect how the font looks. However, the point size of a font is an excellent specification of the relative size of a font. The following examples illustrate two very different proportional fonts at 14 point:

ITC Avant Garde
abcdefghABCDEFGH
ITC Zapf Chancery
abcdefghABCDEFGH

Bitmapped and Scalable Fonts

The printer uses both bitmapped and scalable fonts.

Bitmapped fonts are stored in print memory as predefined patterns of bits that represent a typeface at a specific size, style, and resolution. The following illustration shows an example of a character from a bitmapped font.



Bitmapped fonts are available in different type styles and point sizes as downloadable fonts.

Scalable fonts (also called *outline* fonts) are stored as computer programs that define the outlines of the characters in the font. Each time you print characters from a scalable font, the printer creates a bitmap of the characters at the point size you choose and saves it temporarily in print memory.

These temporary bitmapped fonts are deleted when you turn off or reset the printer. Scalable fonts provide the flexibility of printing in many different point sizes.

Your printer uses different scalable font formats for downloading fonts to the printer. PCL 5/PCL 6 uses Intellifont and TrueType scalable fonts. There are thousands of different scalable fonts available in these different font formats from numerous font suppliers.

If you plan to use many downloadable bitmapped or scalable fonts or if you plan to use many different sizes of scalable fonts, you may need to purchase additional memory for your printer.

Resident Fonts

Your printer is equipped with resident fonts stored permanently in print memory. Different fonts are available in PCL 5/PCL 6. Some of the most popular typefaces, like Courier and TimesNew, are available for all printer languages.

The following table lists all the fonts resident in your printer. See "Printing a Font Sample List" for instructions on how to print samples of the fonts. You can select the resident fonts from your software program or from the operator panel.

Resident scalable fonts
PCL 5 / PCL 6
CG Times
CG Times It
CG Times Bd
CG Times BdIt
Univers Md
Univers MdIt
Univers Bd
Univers BdIt
Univers MdCd
Univers MdCdIt
Univers BdCd
Univers BdCdIt

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AntiqueOlv
AntiqueOlv It
AntiqueOlv Bd
CG Omega
CG Omega It
CG Omega Bd
CG Omega BdIt
Garamond Antiqua
Garamond Krsv
Garamond Hlb
Garamond KrsvHlb
Courier
Courier It
Courier Bd
Courier BdIt
LetterGothic
LetterGothic It
LetterGothic Bd
Albertus Md
Albertus XBd
Clarendon Cd
Coronet
Marigold
Arial
Arial It
Arial Bd
Arial BdIt
TimesNew
TimesNew It
TimesNew Bd
TimesNew BdIt
Symbol
Wingdings
Line Printer
Times Roman
Times It
Times Bd
Times BdIt
Helvetica
Helvetica Ob
Helvetica Bd
Helvetica BdOb
CourierPS

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CourierPS Ob
CourierPS Bd
CourierPS BdOb
SymbolPS
Palatino Roman
Palatino It
Palatino Bd
Palatino BdIt
ITCBookman Lt
ITCBookman LtIt
ITCBookmanDm
ITCBookmanDm It
HelveticaNr
HelveticaNr Ob
HelveticaNr Bd
HelveticaNr BdOb
N C Schbk Roman
N C Schbk It
N C Schbk Bd
N C Schbk BdIt
ITC A G Go Bk
ITC A G Go BkOb
ITC A G Go Dm
ITC A G Go DmOb
ZapfC MdIt
ZapfDingbats

Symbol Sets

A symbol set is the collection of alphabetic and numeric characters, punctuation, and special characters available in the font you select. Symbol sets support the requirements for different languages or specific applications, such as math symbols used for scientific text.

In PCL 5/PCL 6, a symbol set also defines which character will print for each key on the keyboard (or more specifically, for each *code point*). Some applications require different characters at some code points. To support multiple applications and languages, your printer has 36 symbol sets for the resident PCL 5/PCL 6 fonts.

Symbol Sets for PCL 5/PCL 6

Not all font names support all of the symbol sets listed.

Roman 8 (Default)	ISO 8859-1 Latin 1	ISO 8859-2 Latin 2
ISO 8859-9 Latin 5	ISO 8859-10 Latin 6	PC-8
PC-8 DN	PC-775 Baltic	PC-850 Multilingual
PC-852 Latin 2	PC-1004 OS/2	PC Turkish
Windows 3.1 Latin 1	Windows 3.1 Latin 2	Windows 3.1 Latin 5
DeskTop	PS Text	MC Text
Microsoft Publishing	Math 8	PS Math
Pi Font	Legal	ISO 4 United Kingdom
ISO 6 ASCII	ISO 11 Swedish:names	ISO 15 Italian
ISO 17 Spanish	ISO 21 German	ISO 60 Norwegian v1
ISO 69 French	Windows 3.0 Latin 1	Windows Baltic

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Symbol	Wingdings	ITC ZapfDingbats MS

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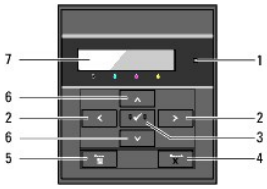
Understanding Printer Messages

The printer operator panel displays messages describing the current state of the printer and indicates possible printer problems you must resolve. This topic provides a list of all printer messages, explains what they mean, and tells you how to clear the messages.



1	Ready/Error indicator	5	**(Menu)** button
2	< > buttons	6	v ^ buttons
3	✓ **(Set)** button	7	LCD Panel
4	X **(Cancel)** button		

Message **(The first and second lines are displayed together. The third and forth lines blink every second.)**	**What this message means**	**What you can do**
NNN-NNN Restart Printer Contact Support IfMessageReturns	Error *NNN-NNN* relates to printer problems.	Turn off the printer, and then on. If this does not solve the problem, contact Dell. See "Contacting Dell".
NNN-NNN Restart Printer Reseat Fuser Contact Support	The fuser is missing or not fully inserted into the printer. Error *NNN-NNN* relates to printer problems.	Confirm that the outer levers on both sides of the fuser unit are securely locked. If this does not solve the problem, contact Dell. See "Contacting Dell".
016-316 Restart Printer Reseat Memory Contact Support	The printer detected an unsupported additional memory module in the memory slot.	Remove the additional memory module. If this does not solve the problem, contact Dell. See "Contacting Dell".
016-318 Restart Printer Reseat Memory Contact Support	The additional memory module is not fully inserted into the slot.	Remove the additional memory module from the slot, and then reattach it firmly. If this does not solve the problem, contact Dell. See "Contacting Dell".
016-340 Restart Printer Contact Support IfMessageReturns	A communication error occurred in the network protocol adapter.	Turn the printer off and then on. If this does not solve the problem, contact Dell. See "Contacting Dell".
016-338 Restart Printer Reseat Wireless Contact Support	An error occurred in the wireless printer adapter.	Turn the printer off and then on. Ensure the following: The wireless printer adapter is securely inserted into the slot on the controller card. Unauthorized USB devices are not used. If this does not solve the problem, contact Dell. See "Contacting Dell".
016-365		

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Restart Printer Reseat NPA Contact Support	A communication card error occurred between the network protocol adapter and control card.	Turn off the printer to re-install the network protocol adapter, and then turn the printer back on again. If this does not solve the problem, contact Dell. See "Contacting Dell".
NNN-NNN Restart Printer Reseat *XXX* Contact Support	*XXX* is not fully inserted. Error *NNN-NNN* relates to printer problems.	Confirm that the unit is securely inserted. If this does not solve the problem, contact Dell. See "Contacting Dell".
Paper Jam *NNN-NNN* Open Front Cover Remove Paper	The printer detects a paper jam.	Clear the paper path. See "Clearing Jams".
Paper Jam 072-*NNN* Open Front Cover & Duplexer Remove Paper	The printer detects a paper jam at the duplexer.	Open the cover of the duplexer and clear the paper path. See "Clearing Jams".
Paper Jam *NNN-NNN* Open Tray *XXX* Remove Paper Open & close Front Cover	The printer detects a paper jam at the tray 1 or tray 2. *XXX* indicates the number of the tray.	Pull out the specified tray and clear the paper path. See "Clearing Jams".
Insert PrintCart *NNN-NNN* Insert *XXX* Cartridge	The specified toner cartridge is either missing or not fully inserted into the printer. *XXX* is one of the following: Black Cyan Yellow Magenta Error *NNN-NNN* relates to printer problems.	Reinsert the specified toner cartridge. See "Replacing Toner Cartridges".
Insert PHD 091-972 Insert PHD	The PHD unit is either missing or not fully inserted into the printer.	Reinsert the PHD unit. See "Replacing the Print Head Device (PHD) Unit".
Replace Cart. 093-*NNN* Replace *XXX* Cartridge	The toner cartridge is low on toner. *XXX* is one of the following: Black Cyan Yellow Magenta	Remove the specified toner cartridge and install a new one. If you do not replace the toner cartridge, print quality problems may occur. Order a new toner cartridge at the website (**www.dell.com/supplies** or **www.euro.dell.com/supplies**). See "Replacing Toner Cartridges".
010-351 Restart Printer Replace Fuser Now Contact Support	The fuser reaches the end of its life.	Replace the fuser. If this does not solve the problem, contact Dell. See the fuser replacement guide, *Replacing the Fuser*. See "Contacting Dell".
Replace PHD 091-935 Replace PHD Now Contact Support	The PHD unit reaches the end of its life.	Replace the PHD unit. If this does not solve the problem, contact Dell. See "Replacing the Print Head Device (PHD) Unit ". See "Contacting Dell".

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094-911 Contact Support 094-911 IfMessageReturns	The DTB unit reaches the end of its life.	Turn the printer off and then on. If this does not solve the problem, contact Dell. See "Contacting Dell".
CRUM ID 093-*NNN* Reseat *XXX* Cartridge	An unsupported unit is installed. *XXX* indicates a unit that you replace.	Remove the unsupported unit and install a supported one. See "Maintaining Your Printer".
PHD 091-912 Reseat PHD	The eight yellow ribbons are not correctly removed from the PHD unit.	Ensure that the eight yellow ribbons are correctly removed from the PHD unit. If this does not solve the problem, replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit".
Shake Cartridge 093-*NNN* Remove and Shake *XXX* Cartridge	The density of the print cartridge is not enough. *XXX* is one of the following: Black Cyan Yellow Magenta	Shake the specified toner cartridge five or six times to distribute the toner evenly and reinsert it.
CTD Sensor Dirty 092-310 Clean CTD Sensor	The CTD sensor is dirty.	Clean the CTD sensor. See "Cleaning the CTD Sensor Inside the Printer".
Close *XXX* Cover 077-*NNN* *XXX* Cover Is Open	Printer cover is open. *XXX* indicates printer cover.	Close the specified cover.
Check Paper Size 024-*NNN* Load *XXX* *xxx* Load *XXX* *yyy*	Incorrect paper size is loaded in the specified tray. *XXX* indicates the number of the tray or single sheet feeder. *xxx* indicates a paper size. *yyy* indicates paper quality.	Load the specified paper in the specified trays. See "Loading Print Media in the Standard 250-Sheet Tray and Optional 250-Sheet Feeder" and "Loading the Single Sheet Feeder".
Out of Memory 016-700 Job too Large Press ✓	The printer memory is full and cannot continue processing the current print job.	Press ✓ **(Set)** button to clear the message, cancel the current print job, and conduct the next print job, if any. Press **Cancel** button to cancel the print job. Press **Menu** button to open Stored Print and delete the holding job. To avoid this error in the future, do the following: Delete unnecessary fonts, macros, and other data in printer memory. Install additional printer memory. See "Printing Held and Proof Print Jobs".
Disk Full 016-980 Job too Large Press ✓	RAM disk memory is full and cannot continue processing the current print job.	Press ✓ **(Set)** button to clear the message, cancel the current print job, and conduct the next print job, if any. Press **Cancel** button to cancel the print job. Press **Menu** button to open Stored Print and delete the current job. To avoid this error in the future, do the following: Reduce the number of print pages such as splitting the print data. Increase free memory space by deleting unnecessary data in the RAM disk. See "Printing Held and Proof Print Jobs".

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PDL Request 016-720 Data Violation Press ✓	Error relating to PDL emulation problems occurs.	Press ✓ **(Set)** button to clear the message, cancel the current print job, and conduct the next print job, if any. Press **Cancel** button to cancel the print job.
Invalid Job 016-799 Data Violation Press ✓	When the configuration of the printer on the printer driver does not conform to the printer you are using, this message appears.	Press **Cancel** button to cancel the print job. Press ✓ **(Set)** button to clear the message, cancel the current print job, and conduct the next print job, if any. Ensure that the printer configuration on the printer driver conforms to the printer you are using.
Ready to Print 193-700 Non-DELL Toner Installed	The printer is in the custom toner cartridge mode.	Though some of the toner cartridges reach the end of their lives, you can continue printing.
Over Heat 042-700 Cooling down Please Wait...	Since it is abnormally hot inside the printer, printing is paused.	Wait for a while with the printer on until the error disappears.

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Clearing Jams

- Avoiding Jams
- Identifying the Location of Paper Jams
- Removing Print Jams From the Single Sheet Feeder
- Removing Print Jams From the Standard 250- Sheet Tray
- Removing Print Jams From the Fuser
- Removing Print Jams From the Duplexer
- Removing Print Jams From the Optional 250- Sheet Feeder

Careful selection of appropriate print media and proper loading allow you to avoid most jams. See "Print Media Guidelines" for more information.

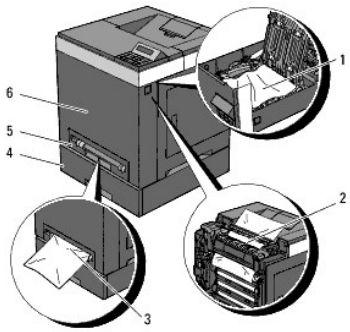
NOTE: Before buying large quantities of any print media, it is recommended that you try a sample first.

Avoiding Jams

- Use only recommended print media. See "Print Media Guidelines" for more information.
- See "Loading Print Media in the Standard 250-Sheet Tray and Optional 250-Sheet Feeder" and "Loading the Single Sheet Feeder" to load print media properly.
- Do not overload the print media sources. Ensure that the stack print media height does not exceed the maximum height indicated by the load line labels in the tray.
- Do not load wrinkled, creased, damp, or curled print media.
- Flex, fan, and straighten print media before you load it. If a jam occurs with print media, try feeding one sheet at a time through the single sheet feeder.
- Do not use print media that you have cut or trimmed yourself.
- Do not mix print media sizes, weights, or types in the same print media source.
- Ensure that the recommended print side is face up when you insert the print media. Also, the recommended print side should be face down when using the single sheet feeder.
- Keep print media stored in an acceptable environment. For more information, see "Storing Print Media".
- Do not remove the feeding tray during a print job.
- Push the tray in firmly after loading.
- Ensure that all cables that connect to the printer are correctly attached.
- Overtightening the guides may cause jams.
- Wipe the retard rollers in the tray or single sheet feeder with a cloth that is slightly dampened with water if jams caused by misfeeding paper occur frequently.

Identifying the Location of Paper Jams

The following illustration shows where paper jams may occur along the print media path.



CAUTION: Do not attempt to clear any jams using tools or instruments. This may permanently damage the printer.

1	Duplexer (option)
2	Fuser
3	Single Sheet Feeder

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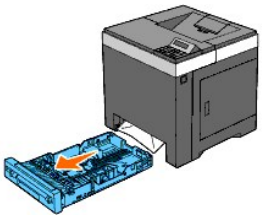
4	Optional 250-Sheet Feeder
5	Standard 250-Sheet Tray
6	Front Cover

Removing Print Jams From the Single Sheet Feeder

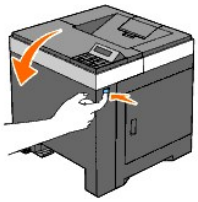
NOTE: To resolve the error displayed on the operator panel, you must clear all print media from the print media path.

1. Pull the jammed paper out of the single sheet feeder. If no jammed paper can be found or it is hard to remove the paper, go to the next step to remove the jammed paper from the inside of the printer.

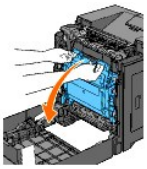
2. Remove the standard 250-sheet tray from the printer, and then pull out the jammed paper remaining inside the printer. If no jammed paper can be found or it is hard to remove the paper, go to the next step to remove the jammed paper from the inside of the printer.



3. Open the front cover by pushing the side button.



4. Open the belt unit until it stops and remove the jammed paper. Then, confirm that there are no scraps of paper remaining inside the printer.



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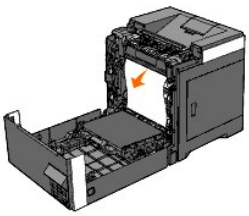
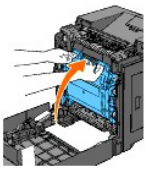
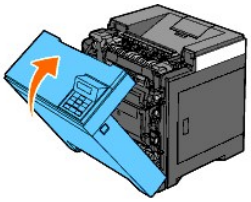


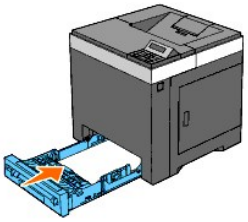
5. Close the belt unit by pushing it up.



6. Close the front cover.



7. Insert the tray back into the printer, and push until it stops.

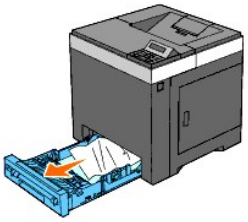


CAUTION: Do not use excessive force on the tray. Doing so could damage the tray or the inside of the printer.

Removing Print Jams From the Standard 250- Sheet Tray

NOTE: To resolve the error displayed on the operator panel, you must clear all print media from the print media path.

1. Pull the tray out of the printer carefully. Hold the tray with both hands, and remove it from the printer.



2. Remove all the jammed and/or creased paper from the tray.

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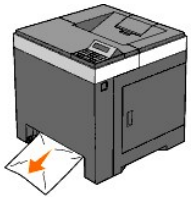
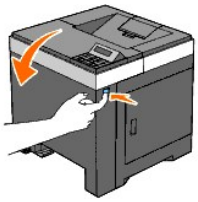
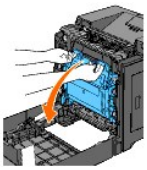
3. Pull the jammed paper out carefully to avoid tearing it. If it is still hard to remove the paper, go to the next step to remove the jammed paper from the inside of the printer.

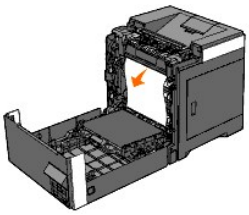


4. Open the front cover by pushing the side button.

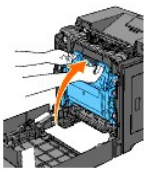


5. Open the belt unit until it stops and remove the jammed paper. Then, confirm that there are no scraps of paper remaining inside the printer.

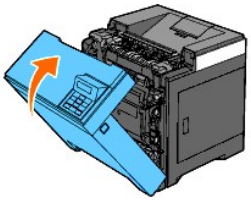




6. Close the belt unit by pushing it up.



7. Close the front cover.



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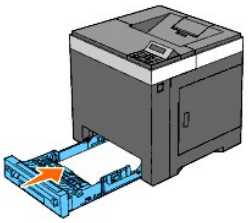
8. Insert the tray into the printer, and push until it stops.

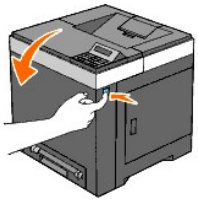


CAUTION: Do not use excessive force on the tray. Doing so could damage the tray or the inside of the printer.

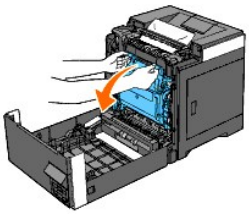
Removing Print Jams From the Fuser

NOTE: To resolve the error displayed on the operator panel, you must clear all print media from the print media path.

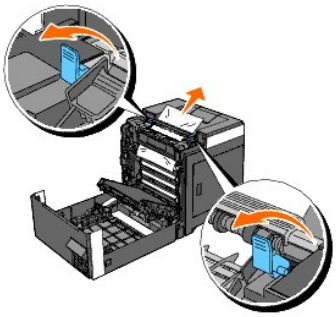
1. Wait for 30 minutes.
2. Push the side button and open the front cover.



3. Open the belt unit until it stops.



4. Lift the levers at both ends of the fuser, and remove the jammed paper. If any jammed paper cannot be found, go to the next step.



The fuser is hot. Do not touch it, doing so may cause burns.

5. Open the cover of the fuser and remove the jammed paper.

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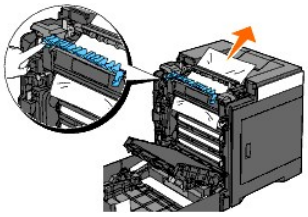
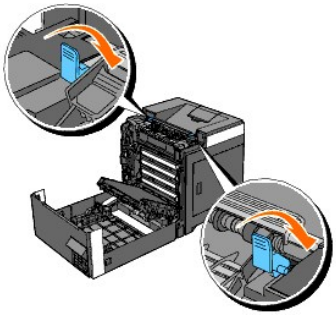
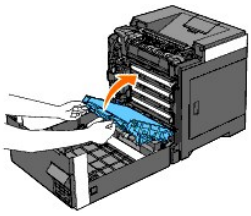


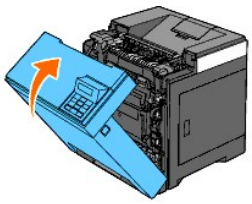
6. Close the cover of the fuser and press down the levers at both ends of the fuser.



7. Confirm that there are no scraps of paper remaining inside the printer, and then close the belt unit.



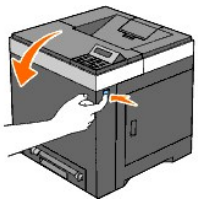
8. Close the front cover.



Removing Print Jams From the Duplexer

NOTE: To resolve the error displayed on the operator panel, you must clear all print media from the print media path.

1. Push the side button and open the front cover.



2. Open the cover of the duplexer.

3. Remove the jammed paper from the duplexer.

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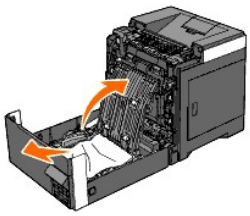
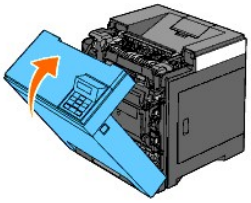


4. Close the cover of the duplexer.

5. Close the front cover.

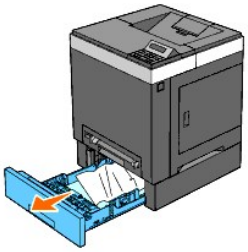


Removing Print Jams From the Optional 250- Sheet Feeder

NOTE: To resolve the error displayed on the operator panel, you must clear all print media from the print media path.

1. Pull the tray out of the printer carefully. Hold the tray with both hands, and remove it from the printer.

NOTE: Paper in the optional 250-sheet feeder feeds to the printer from the front of the standard 250-sheet tray, therefore paper jammed in the standard 250-sheet tray can block the optional 250-sheet feeder in the printer, preventing you from opening them. Look for the jammed paper sequentially, starting with the optional 250-sheet feeder.



2. Remove all jammed and/or creased paper from the tray.

3. Pull the jammed paper out carefully to avoid tearing it. If it is still hard to remove the paper, go to the next step to remove the jammed paper from the inside of the printer.

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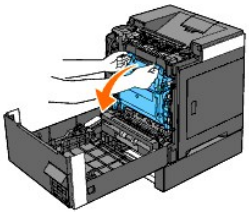
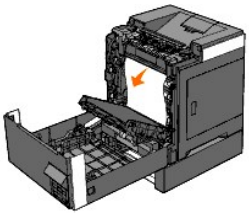
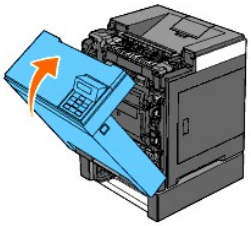
4. Open the front cover by pushing the side button and remove the jammed paper. Then, confirm that there are no scraps of paper remaining inside the printer.



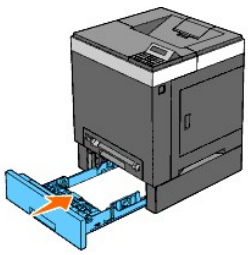


5. Close the front cover.



NOTE: If the paper jam message is not cleared after closing the front cover, pull out the standard 250-sheet tray from the printer and remove the jammed paper.

6. Insert the tray back into the printer, and push until it stops.



CAUTION: Do not use excessive force on the tray. Doing so could damage the tray or the inside of the printer.

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Troubleshooting Guide

- Basic Printer Problems
- Display Problems
- Printing Problems
- Print Quality Problems
- Abnormal Noise
- Jam/Alignment Problems
- Option Problem
- Other Problems
- Contacting Service

Basic Printer Problems

Some printer problems can be easy to resolve. If a problem occurs with your printer, check each of the following:

- The power cable is plugged into the printer and a properly grounded electrical outlet.
- The printer's power is on.
- The electrical outlet is not turned off at any switch or breaker.
- Other electrical equipment plugged into the outlet is working.
- All options are properly installed.
- The wireless printer adapter is not installed if you use the network protocol adapter with the wired network.

If you have checked all of the above and still have a problem, turn off the printer, wait for 10 seconds, and then turn on the printer. This often fixes the problem.

Display Problems

Problem	Action
After the printer is turned on, the display on the operator panel is blank, keeps showing `Please wait...`, or the back light is not lit.	• Turn off the printer, wait for 10 seconds, and turn on the printer. • Self Test Message appears on the operator panel. When the test is completed, `Ready to Print` is displayed.
Menu settings changed from the operator panel have no effect.	Settings in the software program, the printer driver, or the printer utilities are overriding the settings made on the operator panel. • Change the menu settings from the printer driver, the printer utilities, or the software program instead of the operator panel.

Printing Problems

Problem	Action
Job did not print or incorrect characters printed.	Ensure `Ready to Print` appears on the operator panel before you send a job to print. Press **Menu** button to return to `Ready to Print`.
	Ensure print media is loaded in the printer. Press **Menu** button to return to `Ready to Print`.
	Verify the printer is using the correct page description language (PDL).
	Verify that you are using the correct printer driver.
	Ensure you are using the correct Ethernet or USB cable and that it is securely connected to the printer.
	Verify that the correct print media size is selected.
	If using a print spooler, verify that the spooler has not stalled.
	Check the printer's interface from the `Admin Menu`. Determine the host interface you are using. Print a panel settings page to verify that the current interface settings are correct. Refer to "Printing a Panel Settings Page" for details on how to print a panel settings page.

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Print media misfeeds or multiple feeds occur	Ensure the print media you are using meets the specifications for your printer. See "Supported Paper Sizes" for more information.
	Fan the print media before loading it in the standard 250-sheet tray or optional 250-sheet feeder.
	Ensure the print media is loaded correctly.
	Ensure the width and length guides of the print media sources are adjusted correctly.
	Ensure the standard 250-sheet tray and optional 250-sheet feeder are securely inserted.
	Do not overfill the print media sources.
	Do not force print media into the single sheet feeder when you load it; otherwise, it may skew or buckle.
	Ensure the print media is not curled.
	Load the recommended print side correctly for the type of print media you are using. See "Loading Print Media in the Standard 250-Sheet Tray and Optional 250-Sheet Feeder" for more information.
	Turn the print media over or around and try printing again to see if feeding improves.
	Do not mix print media types.
	Do not mix reams of print media.
	Remove the top and bottom curled sheets of a ream before loading the print media.
	Load a print media source only when it is empty.
	Wipe the retard rollers in the trays or single sheet feeder with a dry cloth.
The envelope is creased after printing.	Ensure that the envelope is loaded in the standard 250-sheet tray or single sheet feeder as instructed in "Loading Envelopes" or "Loading an Envelope".
Page breaks in unexpected places.	Increase the setting for **Time-Out** in the **Printer Settings** menu in the **Dell Printer Configuration Web Tool**.
Job prints from the wrong source or on the wrong print media.	Check the Paper Types in the Tray Settings menu on the printer operator panel and in the printer driver.
Print media does not stack neatly in the output bin.	Turn the print media stack over in the tray.
Printer does not duplex pages.	Select **Flip on Short Edge** or **Flip on Long Edge** from the **Duplex** menu on the **Paper/Output** tab in the printer driver.
Cannot print from the standard 250-sheet tray or optional 250-sheet feeder because the print media in the tray is curled.	Load the print media into the single sheet feeder.

Print Quality Problems

NOTE: Some of the following procedures that use the Tool Box can also be performed using the operator panel or Dell Printer Configuration Web Tool. For information on how to use the operator panel and Dell Configuration Web Tool, see "Understanding the Printer Menus" and "Dell Printer Configuration Web Tool".

The entire output is too light.

	Action	Yes	No
1	The toner cartridges may be low or need to be replaced. Confirm the amount of toner in each toner cartridge. 1. Check the toner level in the **Status** tab in the Status Monitor. 2. Replace the toner cartridges as necessary. Is the problem recovered?	The task is complete.	Go to action 2.
2	If the user is using non-Dell brand toner cartridges, disable the **Non-Dell Toner** option. 1. Launch the Tool Box, and click **Non-Dell Toner** on the **Printer Maintenance** tab. 2. Ensure that the **On** check box is not selected. Is the problem recovered?	The task is complete.	Go to action 3.
3	Disable the **Toner Saving Mode** in the printer driver. 1. On the **Advanced** tab, ensure that the **Toner Saving Mode** check box is not selected. Is the problem recovered?	The task is complete.	Go to action 4.
	The print media surface may be uneven. Try changing the **Paper Type** setting in the printer driver. For example, change the plain paper to thick.		

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4	1. On the **Paper/Output** tab, change the **Paper Type** setting. Is the problem recovered?	The task is complete.	Go to action 5.
5	Verify that the correct print media is being used. See "Supported Paper Sizes". If not, use the print media recommended for the printer. Is the problem recovered?	The task is complete.	Go to action 6.
6	Ensure that eight yellow ribbons are correctly removed from the Print Head Device (PHD) unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". If not, remove the ribbons. Is the problem recovered?	The task is complete.	Go to action 7.
7	Ensure that the developer motor functions properly. 1. Launch the Tool Box, and click **Machine Check** on the **Diagnosis** tab. 2. Select **Main Motor Operation Check** from the drop-down list box and click the **Start** button. 3. Click the **Play of Sound** button to check the motor sound. Does the motor function properly?	Go to action 8.	Contact Dell.
8	Ensure that the dispense motor for each toner cartridge functions properly. 1. Launch the Tool Box, and click **Machine Check** on the **Diagnosis** tab. 2. Select **Dispense Motor Check (Yellow)**, **Dispense Motor Check (Magenta)**, **Dispense Motor Check (Cyan)**, or **Dispense Motor Check (Black)** from the drop-down list box, and click the **Start** button. 3. Click the **Play of Sound** button to check the motor sound. 4. Repeat step 2 and 3 to perform Dispense Motor Check for the rest of the toner cartridges. **NOTE:** You can perform Dispense Motor Check for CMYK in any order you desire. Does the dispense motor function properly?	Go to action 9.	Contact Dell.
9	If printing many low density images, execute the Toner Refresh Mode. 1. Launch the Tool Box, and click **Refresh Mode** on the **Diagnosis** tab. 2. Click the **Yellow** button under **Toner Refresh Mode**. 3. Repeat step 2 for **Magenta**, **Cyan**, and **Black** buttons. **NOTE:** Using the Refresh Mode consumes extra toner. 4. After you complete the **Refresh Mode**, select **Chart Print** from the list on the **Diagnosis** tab. 5. Click the **4 Colors Configuration Chart** button. The 4 Colors Configuration Chart is printed. Is the problem recovered?	The task is complete.	Go to action 10.
10	Replace the PHD unit if you have a spare. 1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. After you replace the PHD unit, click **Chart Print** on the **Diagnosis** tab. 3. Click the **4 Colors Configuration Chart** button. The 4 Colors Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.

Part of the output is too light.

	Action	Yes	No
1	If printing many low density images, execute the Toner Refresh Mode. 1. Launch the Tool Box, and click **Refresh Mode** on the **Diagnosis** tab. 2. Click the **Yellow** button under **Toner Refresh Mode**. 3. Repeat step 2 for **Magenta**, **Cyan**, and **Black** buttons. **NOTE:** Using the Refresh Mode consumes extra toner. 4. After you complete the **Refresh Mode**, select **Chart Print** from the list on the **Diagnosis** tab. 5. Click the **4 Colors Configuration Chart** button. The 4 Colors Configuration Chart is printed. Is the problem recovered?	The task is complete.	Go to action 2.
	Replace the PHD unit if you have a spare.		

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2	1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. After you replace the PHD unit, click **Chart Print** on the **Diagnosis** tab. 3. Click the **4 Colors Configuration Chart** button. The 4 Colors Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.

Toner smears or print comes off.

Action	Yes	No
1	The print media surface may be uneven. Try changing the **Paper Type** setting in the printer driver. For example, change the plain paper to thick. 1. On the **Paper/Output** tab, change the **Paper Type** setting. Is the problem recovered?	The task is complete.	Go to action 2.
2	Verify that the correct print media is being used. See "Supported Paper Sizes". If not, use the print media recommended for the printer. Is the problem recovered?	The task is complete.	Go to action 3.
3	Replace the PHD unit if you have a spare. 1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. After you replace the PHD unit, test print your document again. Is the problem recovered?	The task is complete.	Go to action 4.
4	Replace the fuser if you have a spare. 1. Replace the fuser. See the fuser replacement guide, *Replacing the Fuser*. 2. After you replace the fuser, test print your document again. Is the problem resolved?	The task is complete.	Contact Dell.

Random spots/blurred images

Action	Yes	No
1	Ensure that the toner cartridges are installed correctly. See "Installing the Toner Cartridges". Is the problem recovered?	The task is complete.	Go to action 2.
2	Ensure that the PHD unit is installed correctly. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". Is the problem recovered?	The task is complete.	Go to action 3.
3	Replace the PHD unit if you have a spare. 1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. After you replace the PHD unit, click **Chart Print** on the **Diagnosis** tab. 3. Click the **Pitch Configuration Chart** button. The Pitch Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.

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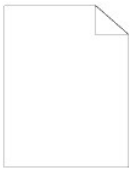
The entire output is blank.



	Action	Yes	No
1	Ensure that eight yellow ribbons are correctly removed from the Print Head Device (PHD) unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". If not, remove the ribbons. Is the problem recovered?	The task is complete.	Go to action 2.
2	Ensure that the developer motor functions properly. 1. Launch the Tool Box, and click **Machine Check** on the **Diagnosis** tab. 2. Select **Main Motor Operation Check** from the drop-down list box and click the **Start** button. 3. Click the **Play of Sound** button to check the motor sound. Does the motor function properly?	Go to action 3.	Contact Dell.
3	Ensure that the dispense motor for each toner cartridge functions properly. 1. Launch the Tool Box, and click **Machine Check** on the **Diagnosis** tab. 2. Select **Dispense Motor Check (Yellow)**, **Dispense Motor Check (Magenta)**, **Dispense Motor Check (Cyan)**, or **Dispense Motor Check (Black)** from the drop-down list box, and click the **Start** button. 3. Click the **Play of Sound** button to check the motor sound. 4. Repeat step 2 and 3 to perform Dispense Motor Check for the rest of the toner cartridges. **NOTE:** You can perform Dispense Motor Check for CMYK in any order you desire. Does the dispense motor function properly?	Go to action 4.	Contact Dell.
4	Replace the PHD unit if you have a spare. 1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. After you replace the PHD unit, click **Chart Print** on the **Diagnosis** tab. 3. Click the **4 Colors Configuration Chart** button. The 4 Colors Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.

Streaks appear on the output.

	Action	Yes	No
1	The toner cartridges may be low or need to be replaced. Confirm the amount of toner in each toner cartridge. 1. Check the toner level in the **Status** tab in the Status Monitor. 2. Replace the toner cartridges as necessary. Is the problem recovered?	The task is complete.	Go to action 2.
2	If the user is using non-Dell brand toner cartridges, disable the **Non-Dell Toner** option. 1. Launch the Tool Box, and click **Non-Dell Toner** on the **Printer Maintenance** tab. 2. Ensure that the **On** check box is not selected. Is the problem recovered?	The task is complete.	Go to action 3.
	Replace the PHD unit if you have a spare.		

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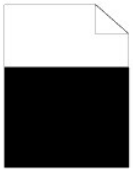
3	1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. After you replace the PHD unit, click **Chart Print** on the **Diagnosis** tab. 3. Click the **4 Colors Configuration Chart** button. The 4 Colors Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.

Part or the entire output is black.



	Action	Yes	No
1	Ensure **Output Color** is set to **Color (Auto)** in the printer driver. 1. On the **Graphics** tab, ensure that the **Output Color** is set to **Color (Auto)**. Is the problem recovered?	The task is complete.	Go to action 2.
2	Replace the PHD unit if you have a spare. 1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. After you replace the PHD unit, click **Chart Print** on the **Diagnosis** tab. 3. Click the **4 Colors Configuration Chart** button. The 4 Colors Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.

Pitched color dots

	Action	Yes	No
1	Locate the cause of the problem using the Pitch Configuration Chart. 1. Launch the Tool Box, and click **Chart Print** on the **Diagnosis** tab. 2. Click the **Pitch Configuration Chart** button. The Pitch Configuration Chart is printed. 3. Compare the pitch of the color spots on your output with that on the Pitch Configuration Chart, and locate the cause of the problem. Is the cause of the problem located?	Proceed to the action corresponding to the location of the problem: - PHD unit - 2a - Fuser - 2b - Main unit of the printer - contact Dell.	Contact Dell.
2a	Replace the PHD unit if you have a spare. 1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. After you replace the PHD unit, click **Chart Print** on the **Diagnosis** tab. 3. Click the **Pitch Configuration Chart** button. The Pitch Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.
	Replace the fuser if you have a spare. 1. Replace the fuser. See the fuser replacement guide, *Replacing the Fuser*.		

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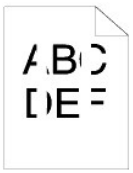
2b	2. After you replace the fuser, click **Chart Print** on the **Diagnosis** tab. 3. Click the **Pitch Configuration Chart** button. The Pitch Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.

Vertical blanks



Action		Yes	No
1	Ensure the light path is not covered. 1. Remove the PHD unit, and keep it in the dark place. See "Replacing the Print Head Device (PHD) Unit". 2. Check the light path, and then remove the shielding. 3. Reinstall the PHD unit. See "Installing the PHD Unit". 4. Launch the Tool Box, and click **Chart Print** on the **Diagnosis** tab. 5. Click the **Pitch Configuration Chart** button. The Pitch Configuration Chart is printed. Is the problem recovered?	The task is complete.	Go to action 2.
2	Replace the PHD unit if you have a spare. 1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. After you replace the PHD unit, click **Chart Print** on the **Diagnosis** tab. 3. Click the **Pitch Configuration Chart** button. The Pitch Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.

Ghosting

Action		Yes	No
1	Locate the cause of the problem using the Ghost Configuration Chart. 1. Launch the Tool Box, and click **Chart Print** on the **Diagnosis** tab. 2. Click the **Ghost Configuration Chart** button. The Ghost Configuration Chart is printed. Is the type of ghosting identified?	Proceed to the action corresponding to the type of ghosting. Positive ghost - 2a Negative ghost - 2b	Contact Dell.
2a	Replace the PHD unit if you have a spare. 1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. After you replace the PHD unit, click **Chart Print** on the **Diagnosis** tab. 3. Click the **Ghost Configuration Chart** button. The Ghost Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.
2b	If using non-recommended print media, use the print media recommended for the printer. Is the problem recovered?	Go to action 3.	Go to action 2a.
3	Adjust the transfer bias. 1. On the operator panel, select `Admin Menu` → `Maintenance` → `Adjust BTR`. 2. Adjust the setting for the type of print media being used. 3. Launch the Tool Box, and click **Chart Print** on the **Diagnosis** tab. 4. Click the **Ghost Configuration Chart** button. The Ghost Configuration Chart is printed.	The task is complete.	Contact Dell.

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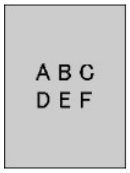
	Is the problem recovered?		

Light fatigue

	Action	Yes	No
1	Check the light fatigue pattern using the Pitch Configuration Chart. 1. Launch the Tool Box, and click **Chart Print** on the **Diagnosis** tab. 2. Click the **Pitch Configuration Chart** button. The Pitch Configuration Chart is printed. Does the pattern on the output match with that on the Pitch Configuration Chart?	Go to action 2.	Contact Dell.
2	Execute the PHD Refresh Mode. 1. Launch the Tool Box, and click **Refresh Mode** on the **Diagnosis** tab. 2. After you start the **PHD Refresh Mode**, click **Chart Print** on the **Diagnosis** tab. 3. Click the **4 Colors Configuration Chart** button. The 4 Colors Configuration Chart is printed. Is the problem recovered?	The task is complete.	Go to action 3.
3	Replace the PHD unit if you have a spare. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". Is the problem recovered?	The task is complete.	Contact Dell.

Fog



	Action	Yes	No
1	Execute the PHD Refresh Mode. 1. Launch the Tool Box, and click **Refresh Mode** on the **Diagnosis** tab. 2. After you start the **PHD Refresh Mode**, click **Chart Print** on the **Diagnosis** tab. 3. Click the **4 Colors Configuration Chart** button. The 4 Colors Configuration Chart is printed. Is the problem recovered?	The task is complete.	Go to action 2.
2	Replace the PHD unit if you have a spare. 1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. After you replace the PHD unit, click **Chart Print** on the **Diagnosis** tab. 3. Click the **4 Colors Configuration Chart** button. The 4 Colors Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.

Bead-Carry-Out (BCO)

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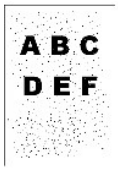

	Action	Yes	No
1	If the printer is installed in a high altitude location, set the altitude of the location. 1. Launch the Tool Box, and click **Adjust Altitude** on the **Printer Maintenance** tab. 2. Select the value close to the altitude of the location where the printer is installed. Is them problem recovered?	The task is complete.	Go to action 2.
2	Replace the PHD unit if you have a spare. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". Is the problem recovered?	The task is complete.	Contact Dell.

Jagged characters

	Action	Yes	No
1	Set **Print Mode** to **High Quality** in the printer driver. 1. On the **Graphics** tab, select **High Quality** from **Print Mode**. Is the problem recovered?	The task is complete.	Go to action 2.
2	Enable **Bitmap Text Smoothing** in the printer driver. 1. On the **Advanced** tab, set **Bitmap Text Smoothing** under **Items** to **On**. Is the problem recovered?	The task is complete.	Go to action 3.
3	If using a downloaded font, ensure that the font is recommended for the printer, operating system, and the application being used. Is the problem recovered?	The task is complete.	Contact Dell.

Banding

	Action	Yes	No
1	Locate the cause of the problem using the MQ Chart. 1. Launch the Tool Box, and click **Chart Print** on the **Diagnosis** tab. 2. Click the **Pitch Configuration Chart** button. The Pitch Configuration Chart is printed. Is the cause of the problem located?	Proceed to the action corresponding to the location of the problem: - PHD unit - 2a - Fuser - 2b - Main unit of the printer - contact Dell.	Contact Dell.

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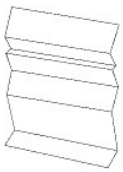
2a	Replace the PHD unit if you have a spare. 1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. After you replace the PHD unit, click **Chart Print** on the **Diagnosis** tab. 3. Click the **Pitch Configuration Chart** button. The Pitch Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.
2b	Replace the fuser if you have a spare. 1. Replace the fuser. See the fuser replacement guide, *Replacing the Fuser*. 2. After you replace the fuser, click **Chart Print** on the **Diagnosis** tab. 3. Click the **Pitch Configuration Chart** button. The Pitch Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.

Auger mark

Action		Yes	No
1	Locate the cause of the problem using the Pitch Configuration Chart. 1. Launch the Tool Box, and click **Chart Print** on the **Diagnosis** tab. 2. Click the **Pitch Configuration Chart** button. The Pitch Configuration Chart is printed. Does the output match with the pattern for auger mark?	Go to action 2.	Contact Dell.
2	Execute the **Developer Stir Mode**. 1. Launch the Tool Box, and click **Developer Stir Mode** on the **Diagnosis** tab. 2. Click the **Start** button. 3. After you execute the **Developer Stir Mode**, click **Chart Print** on the **Diagnosis** tab. 4. Click the **Pitch Configuration Chart** button. The Pitch Configuration Chart is printed. Is the problem recovered?	The task is complete.	Go to action 3.
3	Replace the PHD unit if you have a spare. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". Is the problem recovered?	The task is complete.	Contact Dell.

Creased / stained paper



Action		Yes	No
1	Verify that the correct print media is being used. See "Supported Paper Sizes". If not, use the print media recommended for the printer. Is the problem recovered?	The task is complete.	If printing on an envelope, go to action 2a. If printing on print media other than envelopes, go to action 2b.
			If the envelope is 220 mm or longer (C5

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2a	Check the crease. Is the crease within 30 mm of the four edges of the envelope?	This type of crease is considered normal. Your printer is not at fault.	or COM10), go to action 3a. If the envelope is shorter than 220 mm (Monarch or DL), go to action 3b.
2b	Execute the **Paper Wrinkle Check Mode**. 1. Launch the Tool Box, and click **Paper Wrinkle Check Mode** on the **Diagnosis** tab. 2. Click the **Start** button. Is the paper wrinkled?	Contact Dell.	Go to action 3c.
3a	Does the envelope have a flap on the long edge?	The envelope is C5. Go to action 4a.	The envelope is COM-10. Go to 4b.
3b	Load the envelope long edge feed in the standard 250-sheet tray with the flap open. Is the problem recovered?	The task is complete.	Go to action 4b.
3c	Replace the fuser if you have a spare. See the fuser replacement guide, *Replacing the Fuser*. Is the problem recovered?	The task is complete.	Contact Dell.
4a	Load the envelope in the standard 250-sheet tray with the flap open and face down. Is the problem recovered?	The task is complete.	Go to 4b.
4b	Use a different size envelope. Is the problem recovered?	The task is complete.	Contact Dell.

Abnormal Noise

NOTE: Some of the following procedures that use the Tool Box can also be performed using the operator panel or Dell Printer Configuration Web Tool. For information on how to use the operator panel and Dell Configuration Web Tool, see "Understanding the Printer Menus" and "Dell Printer Configuration Web Tool".

	Action	Yes	No
1	Locate the cause of the problem by removing the toner cartridges, fuser, and PHD unit. 1. Remove the toner cartridges, fuser, and PHD unit. See "Removing the Used Toner Cartridge", "Replacing the Print Head Device (PHD) Unit" and the fuser replacement guide, *Replacing the Fuser*. 2. Launch the Tool Box, and click **Machine Check** on the **Diagnosis** tab. 3. Select **Main Motor Operation Check** from the drop-down list box, and click the **Start** button. 4. Click the **Play of Sound** button to check the motor sound. Does the noise generated from the printer match with the noise from the **Play of Sound** button?	Contact Dell.	Go to action 2.
2	1. On the **Machine Check** page, select **Fuser Motor Operation Check** from the drop-down list box, and click the **Start** button. 2. Click the **Play of Sound** button to check the motor sound. Does the noise generated from the printer match with the noise from the **Play of Sound** button?	Contact Dell.	Go to action 3.
3	1. On the **Machine Check** page, select **Dispense Motor Check (Yellow)**, **Dispense Motor Check (Magenta)**, **Dispense Motor Check (Cyan)**, or **Dispense Motor Check (Black)** from the drop-down list box, and click the **Start** button. 2. Click the **Play of Sound** button to check the motor sound. 3. Repeat steps 1 and 2 to perform Dispense Motor Check for the rest of the toner cartridges. **NOTE:** You can perform Dispense Motor Check for CMYK in any order you desire. **NOTE:** Do not check the operation of the dispense motor repeatedly. Does the noise generated from the printer match with the noise from the **Play of Sound** button?	Contact Dell.	Go to action 4.
4	1. Reinstall the fuser. 2. Perform action 3 again. Does the noise generated from the printer match with the noise from the **Play of Sound** button?	Contact Dell.	Go to action 5.
5	1. Reinstall the PHD unit. 2. Perform action 3 again. Does the noise generated from the printer match with the noise from the **Play of Sound** button?	Contact Dell.	Go to action 6.
6	1. Reinstall the toner cartridges. 2. Perform action 3 again. Does the noise generated from the printer match with the noise from the **Play of Sound** button?	Contact Dell.	Contact Dell.

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Jam / Alignment Problems

NOTE: Some of the following procedures that use the Tool Box can also be performed using the operator panel or Dell Printer Configuration Web Tool. For information on how to use the operator panel and Dell Configuration Web Tool, see "Understanding the Printer Menus" and "Dell Printer Configuration Web Tool".

The top and side margins are incorrect.

Action		Yes	No
1	Ensure that the margins are set correctly on the application being used. Is the problem recovered?	The task is complete.	Contact Dell.

The color registration is out of alignment.

Action		Yes	No
1	Execute auto color registration adjustment. 1. Launch the Tool Box, and click **Registration Adjustment** on the **Printer Maintenance** tab. 2. Click **Auto Correct** under **Color Registration Adjustments**. Is the problem recovered?	The task is complete.	Go to action 2.
2	Do you have a spare PHD unit?	Go to action 3a.	Go to action 3b.
3a	Replace the PHD unit if you have a spare. 1. Replace the PHD unit. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". 2. On the **Registration Adjustment** page, click the **Color Regi Chart** button. The Color Regi Configuration Chart is printed. Is the problem recovered?	The task is complete.	Contact Dell.
3b	Print the Color Regi Configuration Chart and manually correct the color registration. 1. On the **Registration Adjustment** page, click the **Color Regi Chart** button. The Color Regi Configuration Chart is printed. 2. Identify the offset values from the chart and enter them in **Color Registration Adjustment 1 (Lateral)** and **Color Registration Adjustment 2 (Process)**. See "Adjusting Color Registration" for details. 3. Click the **Apply New Settings** button. 4. Click the **Color Regi Chart** button to print the Color Regi Configuration Chart again. Is the problem recovered?	The task is complete.	Contact Dell.

Misfeed jam

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Action		Yes	No
1	Ensure that the standard 250-sheet tray is properly inserted. Is the problem recovered?	The task is complete.	Proceed to the action corresponding to the type of the print media being used: - Thick - 2a - Thin - 2b - Envelope - 2c If performing manual duplex printing, go to action 2d. If using paper other than the above or if not performing duplex printing, go to action 2e.
2a	Use Thick paper that is 216 gsm or less. Is the problem recovered?	The task is complete.	Go to action 3a.
2b	Use Thin paper that is 60 gsm or more. Is the problem recovered?	The task is complete.	Go to action 3a.
2c	Ensure that the envelope is properly loaded in the trays as instructed in "Loading Envelopes" or "Loading an Envelope". Is the problem recovered?	The task is complete.	Go to action 3c.
2d	Ensure that the print media is not curled. Is the problem recovered?	The task is complete.	Go to action 3a.
2e	Is the print media damp?	Go to action 3d.	Go to action 3a.
3a	Fan the print media. Is the problem recovered?	The task is complete.	Go to action 3b.
3b	Wipe the retard roller in the standard 250-sheet tray or optional 250-sheet feeder with a dry cloth. Is the problem recovered?	The task is complete.	Go to action 4b.
3c	If the envelope is deformed, correct it or use another envelope. Is the problem recovered?	The task is complete.	Go to action 3a.
3d	Turn over the print media. Is the problem recovered?	The task is complete.	Go to action 4a.
4a	Use print media that is not damp. Is the problem recovered?	The task is complete.	Go to action 3a.
4b	Replace the PHD unit if you have a spare unit. Is the problem recovered?	The task is complete.	Contact Dell.

Regi jam

Action		Yes	No
1	Ensure that the PHD unit is installed correctly. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". Is the problem recovered?	The task is complete.	Go to action 2.
2	Replace the PHD unit if you have a spare. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". Is the problem recovered?	The task is complete.	Contact Dell.

Exit Jam

Ensure the fuser is installed correctly.

Action		Yes	No
1	Ensure that the fuser is installed correctly. For information on how to install the fuser, see the fuser replacement guide, *Replacing the Fuser*. Is the problem resolved?	The task is complete.	Go to action 2.

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2	Replace the PHD unit if you have a spare. See "Replacing the Print Head Device (PHD) Unit" and "Installing the PHD Unit". Is the problem recovered?	The task is complete.	Contact Dell.

Multi-feed jam

Action		Yes	No
1	Ensure that the standard 250-sheet tray or optional 250-sheet feeder inserted properly. Is the problem recovered?	The task is complete.	Go to action 2.
2	Is that the print media damp?	Go to action 3a.	Go to action 3b.
3a	Use print media that is not damp. Is the problem recovered?	The task is complete.	Go to action 3b.
3b	Fan the print media. Is the problem recovered?	The task is complete.	Go to action 4.
4	Wipe the retard roller in the standard 250-sheet tray or optional 250-sheet feeder with a dry cloth. Is the problem recovered?	The task is complete.	Contact Dell.

Option Problem

If an option does not operate correctly following installation or stops working:

- Turn off the printer, wait for 10 seconds, and then turn on the printer. If this does not fix the problem, unplug the printer, and check the connection between the option and the printer.
- Print the printer settings page to see if the option is listed in the Installed Options list. If the option is not listed, reinstall it. See "Printing a Printer Settings Page".
- Ensure the option is selected in the printer driver you are using.

The following table lists printer's option and corrective action for related problem. If the suggested corrective action does not correct the problem, call customer service.

Problem	Action
Optional 250-sheet feeder	• Ensure the optional 250-sheet feeder is correctly connected to the printer. Reinstall the feeder. See "Removing the Optional 250-Sheet Feeder" and "Installing the Optional 250-Sheet Feeder". • Ensure the print media is loaded correctly. See "Loading Print Media in the Standard 250-Sheet Tray and Optional 250-Sheet Feeder" for more information.
Duplexer	Ensure the duplexer is correctly installed. Reinstall the duplexer. See "Removing a Duplexer" and "Installing a Duplexer".
Memory	Ensure the memory is securely connected to the memory connector.
Network protocol adapter	Ensure the network protocol adapter is securely inserted to the correct slot.
Wireless printer adapter	Ensure the wireless printer adapter is securely inserted to the correct slot.

Other Problems

Problem	Action
Condensation has occurred inside the printer.	This usually occurs within several hours after you heat the room in winter. This also occurs when the printer is operating in a location where relative humidity reaches 85% or more. Adjust the humidity or relocate the printer to an appropriate environment.

Contacting Service

When you call for printer service, be prepared to describe the problem you are experiencing or the error message on the display.

You need to know your printer's model type and serial number. See the label located inside the side door of your printer.

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Installing Printer Drivers

- Personal Printer Setup
- Network Printer Setup
- Printing and Checking the Printer Settings Page
- Local Network Printer Setup
- Remote Network Printer Setup
- Setup Security
- Troubleshooting Instructions

Personal Printer Setup

1. Insert the *Drivers and Utilities* CD into your computer to start **Easy Setup Navigator**.

   NOTE: If the CD does not automatically launch, click **start**→ **All Programs** (for Windows Vista only)→ **Accessories** (for Windows Vista only)→ **Run**, and then type `D:\setup_assist.exe` (where D is the drive letter of your CD), and then click **OK**.

2. Press **Software Installation** to launch the installation software.
3. Select **Personal Installation**, and then click **Next**.
4. Click **Install**.
5. Follow the instructions that appear on the **Found New Hardware Wizard** dialog box to install the printer driver on your computer.
6. When the **Completing the Found New Hardware Wizard** dialog box appears, click **Finish**.
7. Select either **Typical Installation** or **Custom Installation** from the installation wizard, and then click **Install**. If you select **Custom Installation**, you can select the specific software you want to install.
8. Click **Finish** to exit the wizard when the **Congratulations!** screen appears.

USB Printing

A personal printer is a printer attached to your computer or a print server using a USB. If your printer is attached to a network and not your computer, see "Network Printer Setup".

Network Printer Setup

Disable Microsoft® Windows® XP, Windows Server® 2008, or Windows Vista® Firewall Before Printer Software Installation

NOTE: This step may not be necessary if you have Windows XP Service Pack 2 installed.

If your printer is connected directly to a network and the Windows Vista, Windows Server 2008, or Windows XP firewall is enabled, you cannot view your networked printer(s) when you run the Dell™ printer installation software. To prevent this situation, disable the Windows Vista, Windows Server 2008, or Windows XP firewall before you install the Dell printer software. To disable or enable your Windows Vista, Windows Server 2008, or Windows XP firewall, perform the following steps.

NOTICE: It is recommended that you enable your Windows Vista, Windows Server 2008, or Windows XP firewall after you install the printer software. Enabling the Windows Vista, Windows Server 2008, or Windows XP firewall after you install the printer software does not limit the use of your printer.

1. Click the **start** button and click **Help and Support**.
2. In the **Search** box, type `firewall` and then press **Enter**.

   In the list, click **Turn Windows Firewall on or off** and then follow the instructions on the screen.

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Printing and Checking the Printer Settings Page

Before installing the printer driver on your computer, print the printer settings page to check your printer's IP address.

When Using the Operator Panel

1. Press **Menu** button.
2. Press ✔ button until Report/List appears, and then press ✔ **(Set)** button.
3. Printer Setting is displayed, and then Press ✔ **(Set)** button.

   The printer settings page is printed.
4. Look under the **TCP/IP** heading on the printer settings page.

   If the IP address is 0.0.0.0, wait for a few minutes to resolve the IP address automatically, and then print the printer settings page again.

   If the IP address is not resolved automatically, refer to "Assign an IP Address".

Local Network Printer Setup

1. Insert the *Drivers and Utilities* CD into your computer to start **Easy Setup Navigator**.

   NOTE: If the CD does not automatically launch, click **start**→ **All Programs** (for Windows Vista only)→ **Accessories** (for Windows Vista only)→ **Run**, and then type D:\setup_assist.exe (where D is the drive letter of your CD), and then click **OK**.
2. Press **Software Installation** to launch the installation software.
3. Select **Network Installation**, and then click **Next**.
4. Select **Local Installation**, and then click **Next**.

   NOTE: In some cases, **Windows Security Alert** is displayed in this step when you use Windows Vista, Windows Vista 64-bit Edition, Windows Server 2008, or Windows Server 2008 64-bit Edition. In this case, select **Unblock**, and then continue the procedure.
5. Select the printer you want to install from the printer list, and then click **Next**. If the target printer is not displayed on the list, click **Refresh** to refresh the list or click **Add Printer** to add a printer to the list manually. You may specify the IP address and port name at this point.

   If you have installed this printer on the server computer, select the **I am setting up this printer on a server** check box.

   NOTE: When using AutoIP, 0.0.0.0 is displayed in the installer. Before you can continue, you must enter a valid IP address.
6. Specify the printer settings, and then click **Next**.
   a. Enter the printer name.
   b. If you want other users on the network to access this printer, select **Share this printer with other computers on the network**, and then enter a share name that users will easily identify.
   c. If you want to set a printer as the default, select the **Set this printer as default** check box.
   d. If you want to restrict color printing, select the appropriate **Dell ColorTrack** option. Enter the password when **Color-Password Enabled** is selected for **Dell ColorTrack**.
7. Select the software and documentation you want to install, and then click **Next**. You can specify folders in which to install the Dell software and documentation. To change the folders, click **Browse**.
8. Click **Finish** to exit the wizard when the **Congratulations!** screen appears. If necessary, click **Print Test Page** to print a test page.

Use the **Dell Printer Configuration Web Tool** to monitor the status of your network printer without leaving your desk. You can view and/or change the printer configuration settings, monitor toner level, and when it is time to order replacement consumables, just click the Dell supplies link right from your Web browser.

NOTE: The **Dell Printer Configuration Web Tool** is not available when the printer is locally attached to a computer or a print server.

To launch the **Dell Printer Configuration Web Tool**, type the printer's IP address in your Web browser, and the printer configuration appears on the screen.

You can set up the **Dell Printer Configuration Web Tool** to send you an email when the printer needs supplies or intervention.

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To set up e-mail alerts:

1. Launch the **Dell Printer Configuration Web Tool**.
2. Click **E-Mail Alert** link.
3. Under **Setup E-Mail Lists and Alerts**, enter the **Primary SMTP Gateway**, the **Reply Address**, and enter your email address or the key operator's email address in the email list box.
4. Click **Apply New Settings**.

NOTE: The SMTP server will display **Connection in Progress** until an error occurs.

Remote Network Printer Setup

Before Installation

Before you start remote installation, perform the following procedures.

Allow Print Spooler to Accept Client Connections

NOTE: This step is required for Windows Vista, Windows Vista 64-bit Edition, Windows XP 64-bit Edition, Windows Server 2003, Windows Server 2003 64-bit Edition, Windows Server 2008, and Windows Server 2008 64-bit Edition.

1. Click **start**→ **All Programs** (for Windows Vista only)→ **Accessories** (for Windows Vista only)→ **Run**.
2. Type `gpedit.msc`, and then click **OK**.
3. Click **Computer Configuration**→ **Administrative Templates**→ **Printers**.
4. Right-click **Allow Print Spooler to accept client connections** and select **Properties**.
5. From the **Setting** tab, select **Enabled**, and then click **OK**.
6. Restart the computer.

Share the Firewall File and Printer

NOTE: This step is required for Windows Vista, Windows Vista 64-bit Edition, Windows XP 64-bit Edition, Windows XP 32-bit Edition, Windows Server 2008, and Windows Server 2008 64-bit Edition.

For Windows Vista:

1. Click **Start**→ **Control Panel**.
2. Select **Security**.
3. Click **Windows Firewall**.
4. Click **Change settings**.
5. Click **Continue**.
6. From the **Exceptions** tab, check the **File and Printer Sharing** check box, and then click **OK**.

For Windows Server 2008:

1. Click **Start**→ **Control Panel**.
2. Double-Click **Windows Firewall**.

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3. Click **Change settings**.
4. From the **Exceptions** tab, check the **File and Printer Sharing** check box, and then click **OK**.

For Windows XP:

1. Click **start**→ **Control Panel**.
2. Select **Security Center**.
3. Click **Windows Firewall**.
4. From the **Exceptions** tab, check the **File and Printer Sharing** check box, and then click **OK**.

Start Remote Registry

NOTE: This step is required for Windows Vista and Windows Vista 64-bit Edition.

1. Click **Start**→ **Control Panel**.
2. Select **System and Maintenance**.
3. Click **Administrative Tools**.
4. Double-click **Services**.
5. Click **Continue**.
6. Right-click **Remote Registry** and select **Start**.
7. Right-click **Remote Registry** and select **Properties**.
8. Change **Startup type:** to **Automatic**, and then click **OK**.

Disable User Account Control

NOTICE: Disabling the User Account Control might leave the system vulnerable to virus attachs.

NOTE: This step is required for Windows Vista, Windows Vista 64-bit Edition, Windows Server 2008, and Windows Server 2008 64-bit Edition.

For Windows Vista:

1. Click **Start**→ **Control Panel**.
2. Select **User Accounts and Family Safety**.
3. Click **User Accounts**.
4. Click **Turn User Account Control on or off**.
5. Click **Continue**.
6. Clear the **Use User Account Control (UAC) to help protect your computer** check box.
7. Restart the computer.

For Windows Server 2008:

1. Click **Start**→ **Control Panel**.

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2. Double-Click **User Accounts**.
3. Click **Turn User Account Control on or off**.
4. Clear the **Use User Account Control (UAC) to help protect your computer** check box.
5. Click **OK**.
6. Restart the computer.

Enable Network Discovery and File Sharing for all Public Networks

You can skip "Disable User Account Control" for this procedure.

NOTE: This step is required when you use Windows Vista, Windows Vista 64-bit Edition, Windows Server 2008, or Windows Server 2008 64-bit Edition for the server computer.

1. Click **Start**→ **Network**.
2. Click **Network discovery and file sharing are turned off. Network computers and devices are not visible. Click to change**.
3. Click **Turn on network discovery and file sharing**.
4. Click **Yes, turn on network discovery and file sharing for all public networks**.

Disable Simple File Sharing

NOTE: This step is required for Windows XP 32-bit Edition, and Windows XP 64-bit Edition.

1. Click **start**→ **Control Panel**.
2. Select **Appearance and Themes**.
3. Select **Folder Options**.
4. From the **View** tab, clear the **Use simple file sharing(Recommended)** check box, and then click **OK**.
5. Click **start**→ **Control Panel**.
6. Select **Performance and Maintenance**.
7. Select **Administrative Tools**.
8. Click **Local Security Policy**.
9. Click **Local Policies**→ **Security Options**.
10. Right-click **Network access: Sharing and security model for local accounts** and select **Properties**.
11. Ensure **Classic - local users authenticate as themselves** is selected.

Installing the Printer Driver

NOTE: Installation on Windows XP Home Edition, Windows Vista Home Basic, Windows Vista Home Premium, Windows Vista x64 Home Basic, and Windows Vista x64 Home Premium is not supported.

1. Insert the *Drivers and Utilities* CD into your computer to start **Easy Setup Navigator**.

   NOTE: If the CD does not automatically launch, click **start**→ **All Programs** (for Windows Vista only)→ **Accessories** (for Windows Vista only)→ **Run**, and then type `D:\setup_assist.exe` (where D is the drive letter of your CD), and then click **OK**.

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2. Press **Software Installation** to launch the installation software.
3. Select **Network Installation**, and then click **Next**.
4. Select **Remote Installation**, and then click **Next**.
   a. Enter the computer name, user ID, and password. Then, click **Add**.
   b. Click **Next**.

   NOTE: In some cases, **Windows Security Alert** is displayed in this step when you use Windows Vista, Windows Vista 64-bit Edition, Windows Server 2008, or Windows Server 2008 64-bit Edition. In this case, select **Unblock**, and then continue the procedure.
5. Select the printer you want to install from the printer list, and then click **Next**. If the target printer is not displayed on the list, click **Refresh** to refresh the list or click **Add Printer** to add a printer to the list manually. You may specify the IP address and port name at this point.

   NOTE: When using AutoIP, `0.0.0.0` is displayed in the installer. Before you can continue, you must enter a valid IP address.
6. Specify the printer settings, and then click **Next**.
   a. Enter the printer name.
   b. If you want other users on the network to access this printer, select **Share this printer with other computers on the network**, and then enter a share name that users will easily identify.
   c. If you want to set a printer as the default, select the **Set this printer as default** check box.
   d. If you want to restrict color printing, select the appropriate **Dell ColorTrack** option. Enter the password when **Color-Password Enabled** is selected for **Dell ColorTrack**.
7. Select the software and documentation you want to install, and then click **Next**. You can specify folders in which to install the Dell software and documentation. To change the folders, click **Input**.
8. Click **Finish** to exit the wizard when the **Congratulations!** screen appears.

Use the **Dell Printer Configuration Web Tool** to monitor the status of your network printer without leaving your desk. You can view and/or change the printer configuration settings, monitor toner level, and when it is time to order replacement consumables, just click the Dell supplies link right from your Web browser.

NOTE: The **Dell Printer Configuration Web Tool** is not available when the printer is locally attached to a computer or a print server.

To launch the **Dell Printer Configuration Web Tool**, type the printer's IP address in your Web browser, and the printer configuration appears on the screen.

You can set up the **Dell Printer Configuration Web Tool** to send you an email when the printer needs supplies or intervention.

To set up e-mail alerts:

1. Launch the **Dell Printer Configuration Web Tool**.
2. Click **E-Mail Alert** link.
3. Under **E-Mail Server Settings**, enter the **Primary SMTP Gateway**, the **Reply Address**, and enter your email address or the key operator's email address in the email list box.
4. Click **Apply New Settings**.

NOTE: The SMTP server will display **Connection pending until printer sends an alert** until an error occurs.

Setup Security

1. Press **Menu** button.
2. Press ⌄ button until `Admin Menu` appears, and then press ✓ **(Set)** button.
3. Press ⌄ button until `Panel Settings` appears, and then press ✓ **(Set)** button.
4. `Panel Lock` is displayed. Press ✓ **(Set)** button.
5. Press ⌄ button until `Enable` appears, and then press ✓ **(Set)** button.
6. Press **Cancel** button to return to the previous menu.

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7. Press ⌄ button until Change Password appears, and then press ✓ **(Set)** button.

8. Reenter the password to confirm the password that you entered, and then press ✓ **(Set)** button.

   The password has been changed.

NOTE: If you forget your password, turn off the printer. Then, while holding **Menu** button turn on the printer. Continue to hold **Menu** button until the display indicates Init Password Are you sure?. This will recover the factory default panel password.
Note that the password for Panel Lock is disabled.

NOTE: If Panel Lock is Enable, the factory-default panel password is 0000.

Panel Lock	**Disable***	Does not lock Admin Menu with a password.
	Enable	Locks Admin Menu with a password.
Change Password	**0000***	Sets or changes the password required to access Admin Menu.
	0000-9999	

Troubleshooting Instructions

Resetting Defaults

After executing this function and rebooting the printer, all the menu parameters, except the parameters for the network, are reset to their default values.

When Using the Operator Panel

1. Press **Menu** button.
2. Press ⌄ button until Admin Menu appears, and then press ✓ **(Set)** button.
3. Press ⌄ button until Maintenance appears, and then press ✓ **(Set)** button.
4. Press ⌄ until Reset Defaults appears, and then press ✓ **(Set)** button.
5. The Are you sure? message appears on the operator panel. Press ✓ **(Set)** button.
6. Turn off the printer to apply the settings.

When Using the Tool Box

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

   The **Select Printer** dialog box opens.

2. Click the name of this printer listed in **Printer Name**, and then click **OK**.

   The **Tool Box** opens.

3. Click the **Printer Maintenance** tab.
4. Select **Reset Defaults** from the list at the left side of the page.

   The **Reset Defaults** page is displayed.

5. Click **Start**.

   The printer is turned off automatically to apply the settings.

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Printing With Web Services on Devices (WSD)

- Adding Roles of Print Services
- Printer Setup

This section provides information for network printing with WSD, the new Windows Vista® and Windows Server® 2008 protocol of Microsoft®.

Adding Roles of Print Services

When you use Windows Server 2008, you need to add the roles of print services to the Windows Server 2008 client.

1. Click **Start**→ **Administrative Tools**→ **Server Manager**.
2. Select **Add Roles** from the **Action** menu.
3. Check the **Print Services** check box on the **Server Roles** window in the **Add Roles Wizard**, and then click **Next**.
4. Check the **Print Server** check box, and then click **Next**.
5. Click **Install**.

Printer Setup

You can install your new printer on the network using the *Drivers and Utilities* CD that shipped with your printer, or using Microsoft's Windows® **Add Printer** wizard.

Installing a Printer Driver Using the Add Printer Wizard

1. Click **Start**→ **Control Panel**→ **Hardware and Sound**→ **Printers**.
2. Click **Add a printer** to launch the **Add Printer** wizard.
3. Select **Add a network, wireless or Bluetooth printer**.
4. In the list of available printers, select the one you want to use, and then click **Next**.

   NOTE: In the list of available printers, the WSD printer is displayed in the form of **http://IP address/ws/**.

5. If prompted, install the printer driver on your computer. If you are prompted for an administrator password or confirmation, type the password or provide confirmation.
6. Complete the additional steps in the wizard, and then click **Finish**.
7. Print a test page to verify print installation.
8. Click **Start**→ **Control Panel**→ **Hardware and Sound**→ **Printers**.
9. Right-click the printer you just created, and then click **Properties**.

   On the **Options** tab, set each setting item, and then click **Apply**.

10. On the **General** tab, click **Print Test Page**. When a test page prints successfully, installation is complete.

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Maintaining Your Printer

- Determining the Status of Supplies
- Conserving Supplies
- Ordering Supplies
- Storing Print Media
- Storing Consumables
- Replacing Toner Cartridges
- Replacing the Print Head Device (PHD) Unit
- Replacing Retard Roller
- Cleaning the Feed Roller Inside the Printer
- Cleaning the CTD Sensor Inside the Printer
- Adjusting Color Registration

Periodically, your printer requires you to complete certain tasks to maintain optimum print quality. If several people are using the printer, you may want to designate a key operator to maintain your printer. Refer printing problems and maintenance tasks to this key operator.

Determining the Status of Supplies

If your printer is connected to the network, the **Dell™ Printer Configuration Web Tool** can provide instant feedback on remaining toner levels. Type the printer's IP address in your Web browser to view this information. To use the **E-Mail Alert Setup** feature that notifies you when the printer requires new supplies, type your name or the name of the key operator in the e-mail list box.

On the operator panel, you can also confirm the following:

- Any supply or maintenance items that require attention replacing (However, the printer can only display information about one item at a time.)
- Amount of toner remaining in each toner cartridge

Conserving Supplies

You can change several settings in your printer driver to conserve toner cartridge and paper.

Supply	Setting	Function
Toner cartridge	**Toner Saving Mode** in the **Advanced** tab of the printer driver	This check box allows the users to select a print mode that uses less toner. When this feature is used, the image quality will be lower than when it is not used.
Print media	**Multiple Up** in the **Layout** tab of the printer driver	The printer prints two or more pages on one side of a sheet. Values for **Multiple Up** are 2 Up, 4 Up, 8 Up, 16 Up, or 32 Up. Combined with the duplex setting, **Multiple Up** allows you to print up to 64 pages on one sheet of paper. (32 images on the front and 32 on the back)

Ordering Supplies

You can order consumables from Dell on the Internet when using a networked printer. Type the IP address of your printer in your Web browser, launch the **Dell Printer Configuration Web Tool**, and click the **Order Supplies at:** to order toner for your printer.

You can also order toner cartridges by the following method.

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Additional Color Laser Software**→ **Dell Supplies Management System**.

   The **Dell Supplies Management System** window appears.

2. Select your printer from the **Select Printer Model** list.

3. If ordering from the Web:

   a. When you cannot get information from the printer automatically by two-way communication, a window that prompts you to type the Service Tag number appears. Type your Dell printer Service Tag number in the field provided.

      Your Service Tag number is located inside the side cover of your printer.

   b. Select a URL from the **Select Reorder URL** list.

   c. Click **Visit Dell printer supplies ordering web site**.

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4. If ordering by phone, call the number that appears under the **Order by Phone** heading.

Storing Print Media

To avoid potential paper feeding problems and uneven print quality, there are several things you can do.

- To achieve the best possible print quality, store print media in an environment where the temperature is approximately 21°C (70°F) and the relative humidity is 40%.
- Store cartons of print media on a pallet or shelf, rather than directly on the floor.
- If you store individual packages of print media out of the original carton, ensure that they rest on a flat surface so the edges do not buckle or curl.
- Do not place anything on top of the print media packages.

Storing Consumables

Store consumables in their original packaging until you need to use them. Do not store consumables in:

- Temperatures greater than 40°C (104°F).
- An environment with extreme changes in humidity or temperature.
- Direct sunlight.
- Dusty places.
- A car for a long period of time.
- An environment where corrosive gases are present.
- An environment with salty air.

Replacing Toner Cartridges

⚠ **CAUTION: Before performing any of the following procedures, read and follow the safety instructions in your *Product Information Guide*.**

Dell toner cartridges are available only through Dell. You can order more cartridges online at **http://www.dell.com/supplies** or by phone. To order by phone, see "Contacting Dell".

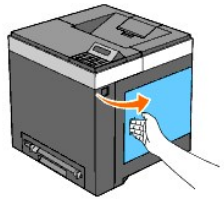
It is recommended that you use Dell toner cartridges for your printer. Dell does not provide warranty coverage for problems caused by using accessories, parts, or components not supplied by Dell.

⚠ **CAUTION: Never throw used toner cartridges into fire. The residual toner could explode resulting in burns and injuries.**

⚠ **CAUTION: Do not shake the used toner cartridge to avoid spilling of toner.**

Removing the Used Toner Cartridge

1. Open the side cover.



2. Push the latch(es) backwards to unlock the toner cartridge(s) that you want to replace.

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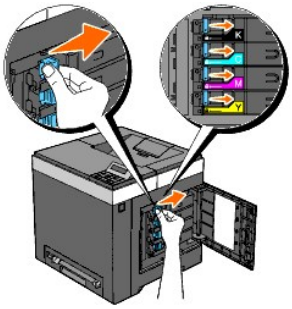
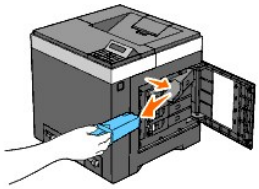


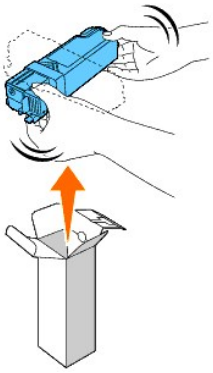
3. Pull the cartridge holder outwards until it stops, and then pull the toner cartridge out of the holder.



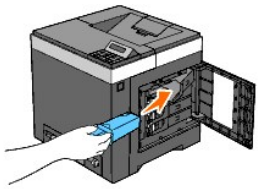
CAUTION: Do not shake the toner cartridge as it may spill some toner.

Installing a New Toner Cartridge

1. Ensure that the color of the new toner cartridge matches that on the handle before replacing it. Shake the toner cartridge five or six times to distribute the toner evenly.



2. Insert the toner cartridge into the associated cartridge holder, and slide the latches of the toner cartridge until it locks well.



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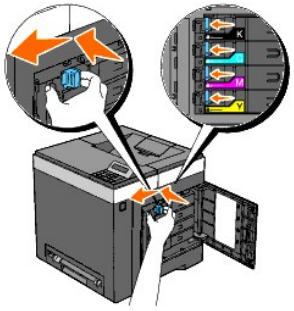


3. Close the side cover.

Replacing the Print Head Device (PHD) Unit

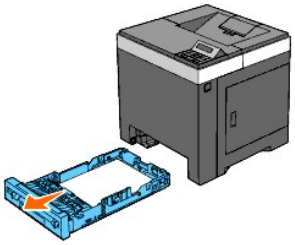
CAUTION: Before performing any of the following procedures, read and follow the safety instructions in your *Product Information Guide*.

NOTICE: To protect the drums of the Print Head Device (PHD) against bright light, close the belt unit within three minutes. If the belt unit remains open for more than three minutes, print quality may deteriorate.

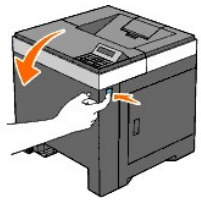
NOTICE: Ensure that nothing touches or scratches the surface (black-colored film) of the belt unit. Scratches, dirt, or oil from your hands on the film of the belt unit may affect print quality.

1. Ensure that the printer is turned off.

2. Pull the standard 250-sheet tray out of the printer carefully. Hold the tray with both hands, and remove it from the printer.



3. Press the side button and open the front cover.



4. Open the belt unit.

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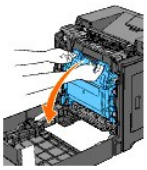
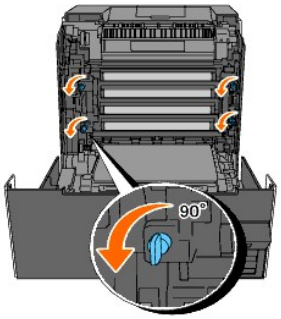
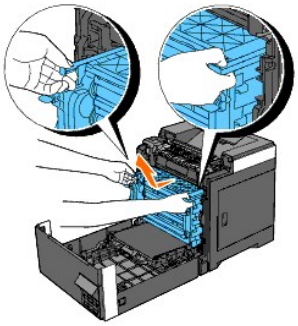


5. Turn the four PHD lock levers counter-clockwise.

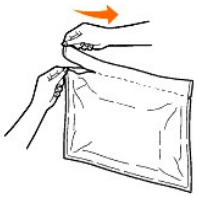


6. Pull the PHD unit out of the printer.



Installing the PHD Unit

1. Open the PHD packaging.



2. Remove the PHD unit from the packaging.

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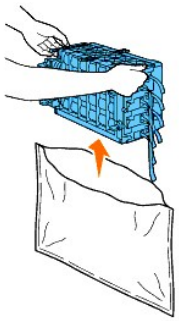
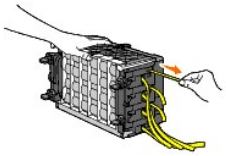
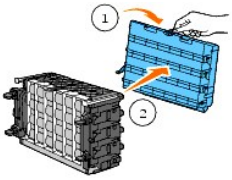


3. Completely remove the eight yellow ribbons from the PHD unit.

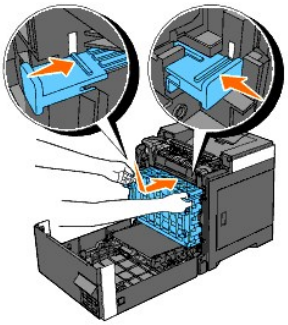


4. Remove the rear protective cover from the PHD unit.

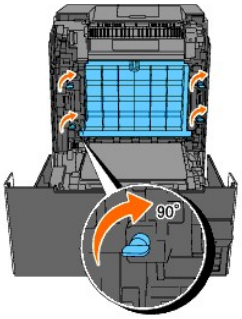
NOTE: Do not remove the front protective cover at this moment.



5. Insert the PHD unit until the line on the handle aligns with the white line on the printer.



6. Turn the four PHD lock levers 90 degrees clockwise to lock the PHD unit.



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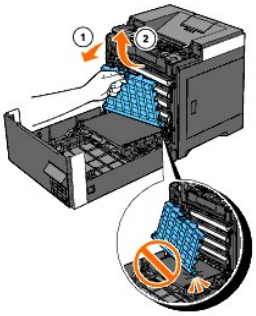
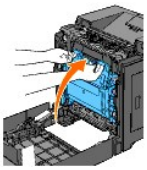
7. Carefully remove the front protective cover from the PHD unit.

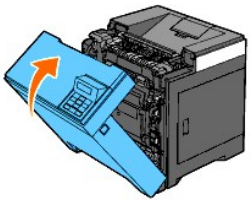
NOTICE: Ensure that you do not hit the belt unit when removing the front protective cover.



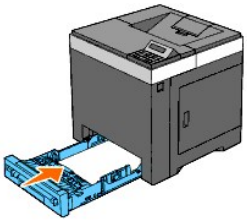
8. Close the belt unit by pushing it up.



9. Close the front cover.



10. Insert the standard 250-sheet tray into the printer, and push until it stops.



CAUTION: Do not use excessive force on the tray. Doing so could damage the tray or the inside of the printer.

Replacing Retard Roller

Keeping the retard roller in the paper tray clean helps ensure the best possible copies. It is recommended to clean the separator at regular intervals.

CAUTION: To prevent electric shock, always turn off the printer and disconnect the power cable from the grounded outlet before performing maintenance.

CAUTION: Before performing any of the following procedures, read and follow the safety instructions in your *Product Information Guide*.

Dell retard rollers are available only through Dell. To order by phone, see "Contacting Dell".

It is recommended to use Dell retard rollers for your printer. Dell does not provide warranty coverage for problems caused by using accessories, parts, or components not supplied by Dell.

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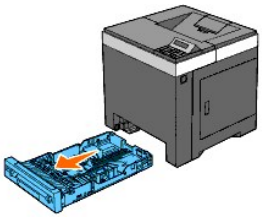
Removing the Used Retard Roller in the Standard 250-Sheet Tray

NOTE: Remove all paper or media from the tray before pulling the tray out of the printer.

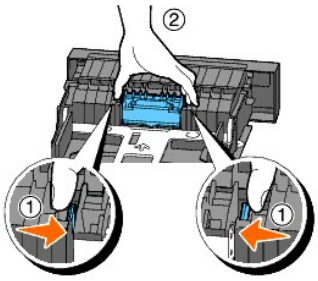
1. Pull the standard 250-sheet tray out of the printer carefully. Hold the tray with both hands, and remove it from the printer.

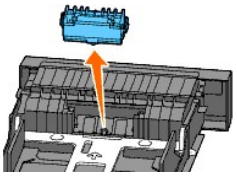


NOTE: Ensure that you remove all the paper from the standard 250-sheet tray before removing the retard roller.

NOTE: Carefully replace the standard 250-sheet tray so it does not fall down.

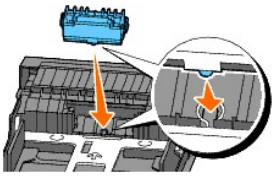
2. By holding the retard roller tabs with your fingers, pull the retard roller out of the groove in the axle.





Installing the New Retard Roller in the Standard 250-Sheet Tray

1. Align the new retard roller to the groove on the axle.



2. Insert the retard roller into the axle till it snaps fit so the protrusions fit completely into the slots and the roller hook reseats into the groove on the axle.

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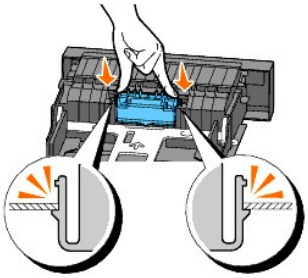
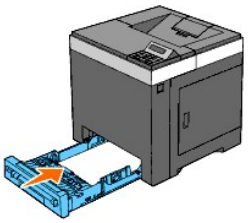


3. Load paper and place it in the printer.



CAUTION: Do not use excessive force on the tray. Doing so could damage the tray or the inside of the printer.

Cleaning the Feed Roller Inside the Printer

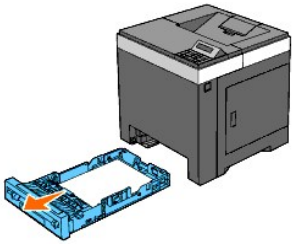
Clean the feed roller inside the printer if print media does not feed correctly.

NOTICE: To protect the drums of the Print Head Device (PHD) against bright light, close the belt unit within three minutes. If the belt unit remains open for more than three minutes, print quality may deteriorate.

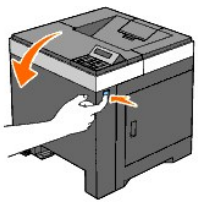
NOTICE: Ensure that nothing touches or scratches the surface (black-colored film) of the belt unit. Scratches, dirt, or oil from your hands on the film of the belt unit may affect print quality.

1. Ensure that the printer is turned off.

2. Pull the standard 250-sheet tray out of the printer carefully. Hold the tray with both hands, and remove it from the printer.



3. Push the side button and open the front cover.



4. Open the belt unit.

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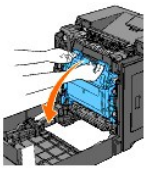
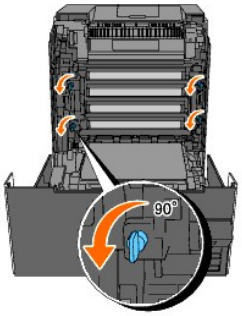
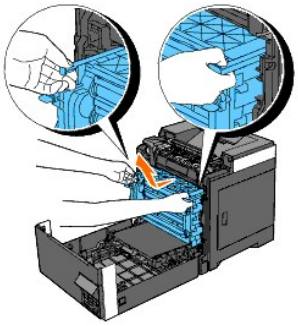


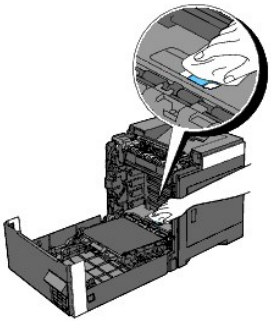
5. Turn the four PHD lock levers counter-clockwise, and then pull the PHD unit out of the printer.





NOTE: Keep the PHD unit in the dark place. Avoid exposing the PHD unit to light.

6. Clean the feed roller inside the printer with a dry cloth.



7. Insert the PHD unit until it stops and turn the four PHD lock levers clockwise to lock the PHD unit.

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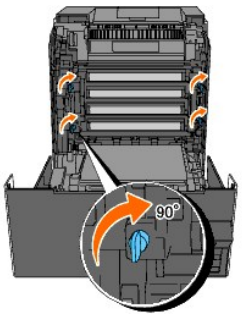
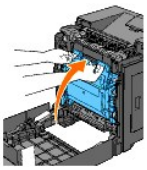
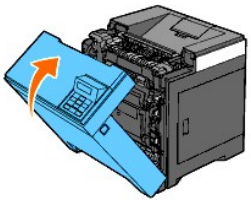


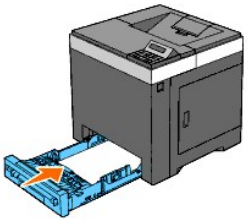
8. Close the belt unit by pushing it up.



9. Close the front cover.



10. Insert the standard 250-sheet tray into the printer, and push until it stops.



CAUTION: Do not use excessive force on the tray. Doing so could damage the tray or the inside of the printer.

Cleaning the CTD Sensor Inside the Printer

Clean the CTD sensor only when an alert for the CTD sensor is shown on the Status Monitor or operator panel.

NOTICE: To protect the drums of the Print Head Device (PHD) against bright light, close the belt unit within three minutes. If the belt unit remains open for more than three minutes, print quality may deteriorate.

NOTICE: Ensure that nothing touches or scratches the surface (black-colored film) of the belt unit. Scratches, dirt, or oil from your hands on the film of the belt unit may affect print quality.

1. Ensure that the printer is turned off.

2. Pull the standard 250-sheet tray out of the printer carefully. Hold the tray with both hands, and remove it from the printer.

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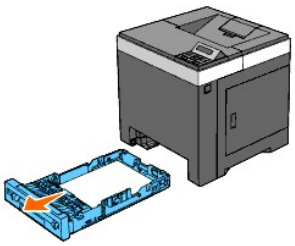
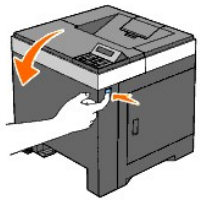
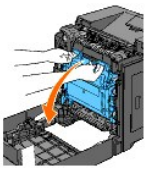


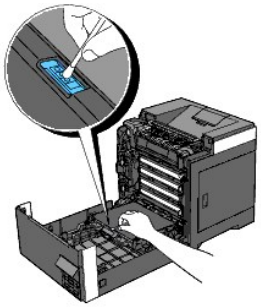
3. Push the side button and open the front cover.



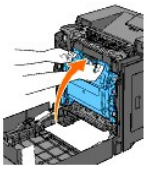
4. Open the belt unit.



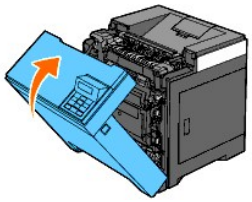
5. Clean the CTD sensor inside the printer with a clean dry cotton swab.



6. Close the belt unit by pushing it up.



7. Close the front cover.



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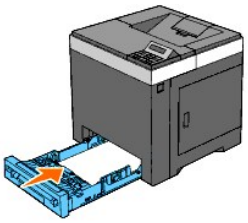
8. Insert the standard 250-sheet tray into the printer, and push until it stops.



CAUTION: Do not use excessive force on the tray. Doing so could damage the tray or the inside of the printer.

Adjusting Color Registration

To adjust the color registration after moving it to a new location, follow the procedure below.

Printing the Color Registration Chart

When Using the Operator Panel

1. Press **Menu** button.
2. Press ⌄ button until `Admin Menu` appears, and then press ✓ **(Set)** button.
3. Press ⌄ button until `Maintenance` appears, and then press ✓ **(Set)** button.
4. Press ⌄ button until `Color Reg Adj` appears, and then press ✓ **(Set)** button.
5. Press ⌄ button until `ColorRegi Chart` appears, and then press ✓ **(Set)** button.

   The color registration chart is printed.

When Using the Tool Box

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

   The **Select Printer** dialog box opens.

2. Click the name of this printer listed in **Printer Name**, and then click **OK**.

   The **Tool Box** opens.

3. Click the **Printer Maintenance** tab.
4. Select **Registration Adjustment** from the list at the left side of the page.

   The **Registration Adjustment** page is displayed.

5. Click the **Start** button next to **Color Regi Chart**.

   The color registration chart is printed.

Determining Values

On the color registration chart, there are two types of charts: Chart 1 (fast scan) and Chart 2 (slow scan).

The Chart 1 is used to adjust the color registration for the fast scan direction, which is vertical to paper feed direction. The Chart 2 is used to adjust the color registration for the slow scan direction, which is horizontal to paper feed direction.

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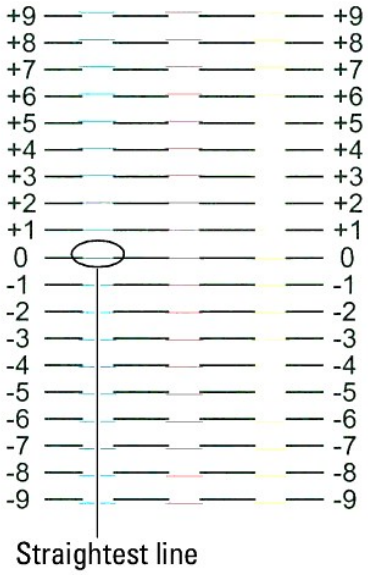
The following explains how to determine the adjustment values for the fast scan and the slow scan using Chart 1 and Chart 2.

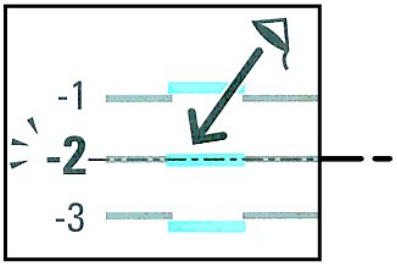
Fast Scan

On the Chart 1 of the color registration chart, find the straightest lines where the two black lines and the colored line are most closely aligned for each color (**Y**, **M**, and **C**). If you find the straightest line, make a note of the value (**-9** - **+9**) indicated by the straightest line for each color.

When the value is **0** for each color, you do not need to adjust the color registration for the fast scan.

When the value is not **0**, enter the value using the procedure in "Entering Values"".





Slow Scan

On the Chart 2 of the color registration chart, find the medium line within the range of white area for each color pattern (**Y**, **M**, and **C**). If you find the medium line, make a note of the value (**-9** - **+9**) indicated by the medium line for each color.

When the value is **0** for each color, you do not need to adjust the color registration for the slow scan.

When the value is not **0**, enter the value using the procedure in "Entering Values"".

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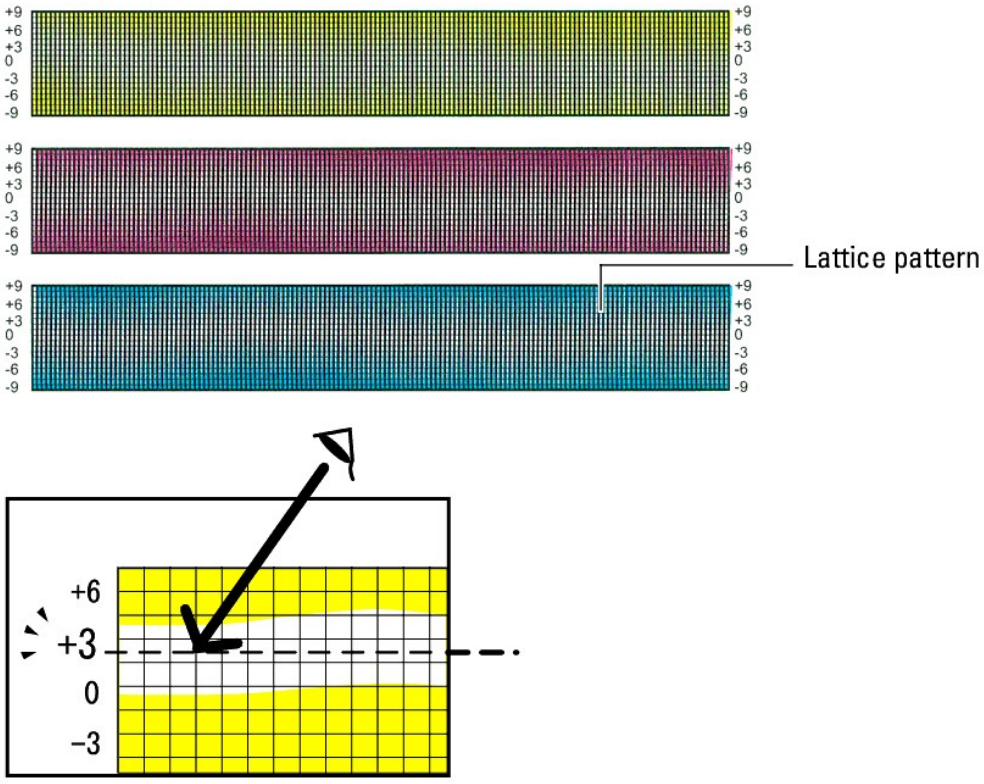

Entering Values

When Using the Operator Panel

Using the operator panel, enter the values that you found in the color registration chart to make adjustments.

1. Press **Menu** button.
2. Press ⌄ button until `Admin Menu` appears, and then press ✓ **(Set)** button.
3. Press ⌄ button until `Maintenance` appears, and then press ✓ **(Set)** button.
4. Press ⌄ button until `Color Reg Adj` appears, and then press ✓ **(Set)** button.
5. Press ⌄ button until `Enter Number` appears, and then press ✓ **(Set)** button.
6. Press ⌄ button until `Fast Scan` appears, and then press ✓ **(Set)** button.

   The cursor is located at the first digit of the `Fast Scan`.
7. Press ⌄ or ⌃ button until you reach the value (for example, +3) displayed on the chart.
8. Press › button once and move the cursor to the next value.
9. Repeat steps 7 and 8 to enter all of the digits of the `Fast Scan`, and then press ✓ **(Set)** button.
10. Press ⌄ button until `Slow Scan` appears, and then press ✓ **(Set)** button.

    The cursor is located at the first digit of the `Slow Scan`.

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11. Press ⌄ or ⌃ button until you reach the value (for example, +3) displayed on the chart.
12. Press ⌄ button once and move the cursor to the next value.
13. Repeat steps 11 and 12 to enter all of the digits of the Slow Scan, and then press ✓ **(Set)** button.
14. Press **Cancel** button.
15. Press ⌄ button until ColorRegi Chart appears, and then press ✓ **(Set)** button.

    The color registration chart is printed with the new values.
16. Press ✓ **(Set)** button.
17. Adjust till all straight lines are at the value of 0. Viewing the images before and after will help.

When Using the Tool Box

Using the Tool Box, enter the values that you found in the color registration chart to make adjustments.

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

   The **Select Printer** dialog box opens.
2. Click the name of this printer listed in **Printer Name**, and then click **OK**.

   The **Tool Box** opens.
3. Click the **Printer Maintenance** tab.
4. Select **Registration Adjustment** from the list at the left side of the page.

   The **Registration Adjustment** page is displayed.
5. Select the value with the straight line, and then click the **Apply New Settings** button.
6. Click the **Start** button next to **Color Regi Chart**.

   The color registration chart is printed with the new values.
7. Adjust till all straight lines are at the value of 0. Show image of before and after adjustment will help.

NOTICE: After printing the color registration chart, do not turn off the printer until the printer motor has stopped running.

NOTE: If 0 is not next to the straightest lines, determine the values and adjust the printer again.

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Removing Options

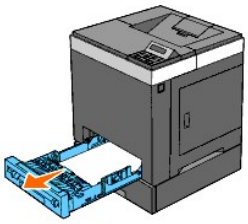
- Removing the Optional 250-Sheet Feeder
- Removing a Duplexer
- Removing a Memory
- Removing the Network Protocol Adapter
- Removing the Wireless Printer Adapter

If the printer location needs to change or the printer and print media handling options need to be shipped to a new location, all print media handling options must be removed from the printer. For shipping, pack the printer and print media handling options securely to avoid damage.

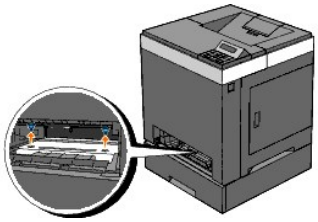
Removing the Optional 250-Sheet Feeder

CAUTION: If you are removing an optional 250-sheet feeder, be sure to turn off the printer, unplug the power cable, and disconnect all cables from the back of the printer before completing these tasks.

1. Turn off the printer and unplug the power cable. Then, disconnect all cables from the back of the printer.
2. Pull the standard 250-sheet tray out of the printer about 200 mm. Hold the tray with both hands, and remove it from the printer.



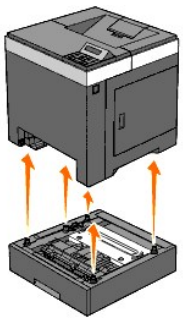
3. Remove the two screws joining the printer and the optional 250-sheet feeder by unscrewing them with a coin or similar object.



NOTE: The screw hole is located in 216 mm recess from the front of the printer.

4. Gently lift the printer off the tray module, and place it on a level surface.

CAUTION: To lift the printer safely, lift it with two people facing the front and back. Never try to lift the printer while facing its right and left sides.



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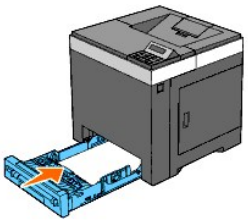
5. Insert the standard 250-sheet tray into the printer, and push until it stops.



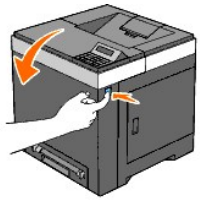
CAUTION: Do not use excessive force on the tray. Doing so could damage the tray or the inside of the printer.

6. Reconnect all cables including the power cable into the back of the printer and turn on the printer.

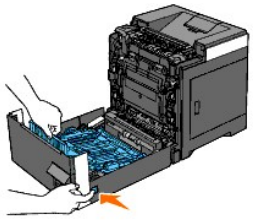
Removing a Duplexer

1. Ensure that the printer is turned off.

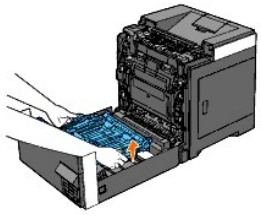
2. Push the side button and open the front cover.



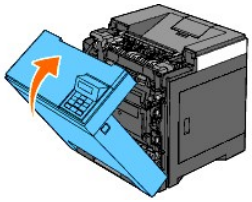
3. Hold the side button and release the lock of the duplexer by lifting the front edge of it slightly.



4. Remove the duplexer from the printer by lifting it vertically and holding it horizontally.



5. Close the front cover.



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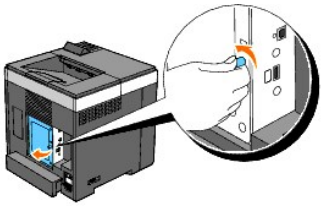
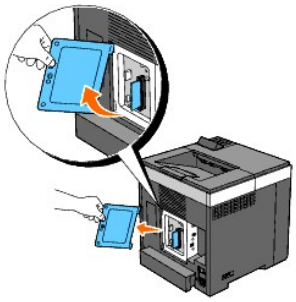
Removing a Memory

1. Ensure that the printer is turned off.
2. Turn the screw on the control board cover in a counter-clockwise direction and open the cover.

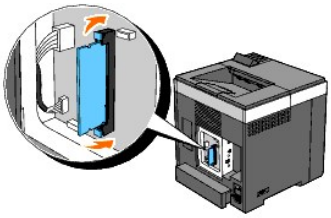


3. Remove the control board cover.

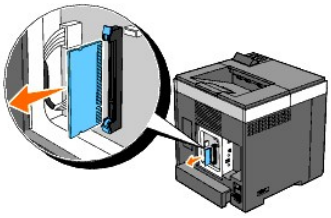
NOTE: Take off the below edge of the control board cover by turning the control board cover on hinge in the above edge. Next, remove the control board cover by pulling it from the printer.



4. Push the latches on both edges of the socket outward at the same time to raise the memory up.



5. Hold the memory and pull it out.



6. Install the control board cover.

NOTE: Insert the above hinge of the control board cover into the above slit on the printer. Next, insert the below hinge of the control board cover into the below slit on the printer.

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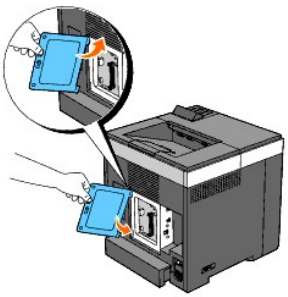
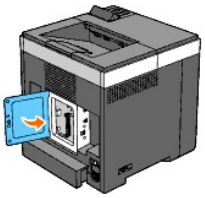


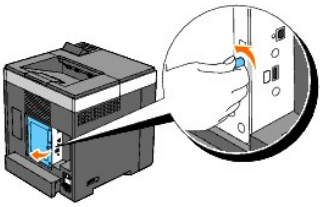
7. Close the control board cover and turn the screw clockwise.



Removing the Network Protocol Adapter

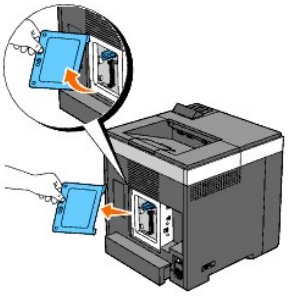
1. Turn off the printer and unplug the power cable. Then, disconnect all cables from the back of the printer.

2. Turn the screw on the control board cover in a counter-clockwise direction and open the cover.



3. Remove the control board cover.

   NOTE: Take off the below edge of the control board cover by turning the control board cover on hinge in the above edge. Next, remove the control board cover by pulling it from the printer.



4. Remove the network protocol adapter by releasing the adapter's hooks.

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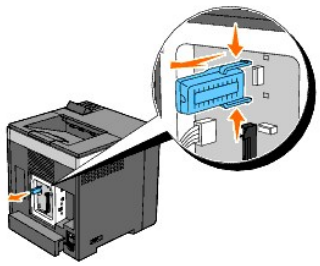
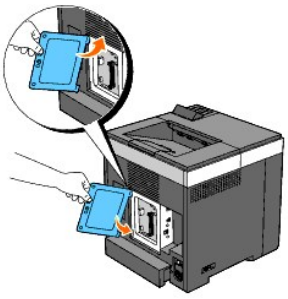


5. Install the control board cover.

NOTE: Insert the above hinge of the control board cover into the above slit on the printer. Next, insert the below hinge of the control board cover into the below slit on the printer.



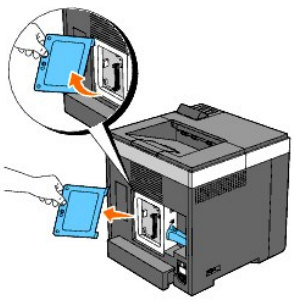
6. Close the control board cover and turn the screw clockwise.

7. Reconnect all cables including the power cable into the back of the printer and turn on the printer.

Removing the Wireless Printer Adapter

1. Turn off the printer and unplug the power cable. Then, disconnect all cables from the back of the printer.
2. Turn the screw on the control board cover in a counter-clockwise direction and open the cover.
3. Remove the control board cover.

NOTE: Take off the below edge of the control board cover by turning the control board cover on hinge in the above edge. Next, remove the control board cover by pulling it from the printer.



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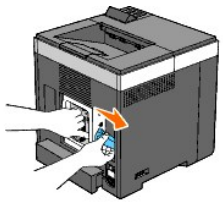
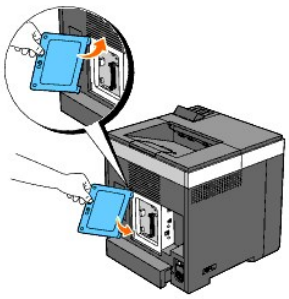
4. Remove the wireless printer adapter from the printer by releasing the adapter's hook from underside of the wireless printer adapter socket as shown in the following illustration.



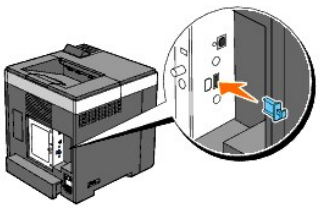
5. Install the control board cover.

NOTE: Insert the above hinge of the control board cover into the above slit on the printer. Next, insert the below hinge of the control board cover into the below slit on the printer.



6. Close the control board cover and turn the screw clockwise.

7. Insert the cap into the wireless printer adapter socket.



8. Reconnect all cables including the power cable into the back of the printer and turn on the printer.

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Printer Specifications

- OS Compatibility
- Power Supply
- Dimensions
- Memory
- Page Description Language (PDL)/Emulation, Operating System, and Interface
- Environment
- Cables

OS Compatibility

Your Dell™ 2130cn Color Laser Printer is compatible with Microsoft® Windows® 2000, Windows XP, Windows XP 64-bit Edition, Windows Server® 2003, Windows Server 2003 64-bit Edition, Windows Server 2008, Windows Server 2008 64-bit Edition, Windows Vista®, and Windows Vista 64-bit Edition.

[1] Dell technical phone support only supports factory-installed operating systems (Microsoft) for the first 30 days for free. See **http://www1.us.dell.com/content/products/compare.aspx/laser?c=us&cs=555&l=en&s=biz** for more details. The customer will have to purchase technical support from the manufacturer of the operating system in order to get technical assistance beyond 30 days.

[2] If the customer has other operating systems and has purchased Gold Technical Support (for more information on Gold Technical Support, see **http://www1.us.dell.com/content/topics/global.aspx/services/en/gts?c=us&cs=555&l=en&s=biz**), the telephone support will be a "best effort" attempt to resolve the operating system issue. If the manufacturer needs to be contacted, the customer must pay an additional fee for that support. The only time that Dell pays for the third party support is when Dell is responsible for the issue. In the case of getting the printer installed and working, this is configuration and the customer would be responsible for paying.

Power Supply

Rated Voltage	220-240 VAC	110-127 VAC
Frequency	50/60 Hz	50/60 Hz
Current	5 A	9 A

Dimensions

Height: 413 mm (16.26 inches) Width: 400 mm (15.75 inches) Depth: 406 mm (15.98 inches)

Weight (not including cartridge and PHD unit): 16.3 kg (35.9 lb)

Memory

Base memory	256 MB
Maximum memory	1280 MB (256+1024 MB)
Connector	200pin DDR2 SO-DIMM
DIMM Size	512 MB, 1024 MB
Speed	PC2-3200, PC2-4200, PC2-5300

Page Description Language (PDL)/Emulation, Operating System, and Interface

PDL/Emulations	PCL 6, PCL5e	
OSes	Microsoft Windows Vista, Windows Vista 64-bit Edition, Windows Server 2008, Windows Server 2008 64-bit Edition, Windows XP, Windows XP 64-bit Edition, Windows Server 2003, Windows Server 2003 64-bit Edition, Windows 2000	
Interfaces	Standard local:	USB
	Standard network:	10Base-T/100Base-TX Ethernet

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	Optional network:	IEEE802.11b/802.11g (Wireless)

MIB Compatibility

A Management Information Base (MIB) is a database containing information about network devices (such as adapters, bridges, routers, or computers). This information helps network administrators manage the network (analyze performance, traffic, errors, and so on). Dell™ 2130cn Color Laser Printer complies with standard industry MIB specifications, allowing the printer to be recognized and managed by various printer and network management software systems.

Environment

Operation

Temperature	5-32°C
Relative humidity	15-85% RH (no condensation)

Print Quality Guarantee

Temperature	15-28°C
Relative humidity	20-70% RH (no condensation)

Storage

Temperature range	0-35°C (32-95°F)
Storage humidity range	15-80% RH (no condensation)

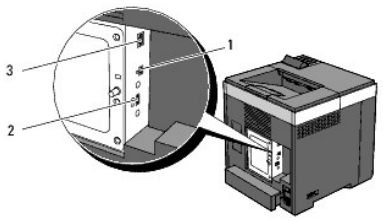
Altitude

Operating	Up to 3,100 m (10,000 feet)
Storage	70.9275 Kpa

Cables

Your interconnection cable must meet the following requirements:

	Connection type	Connection specifications and symbols	
1	USB	USB2.0	
2	Wireless	IEEE802.11b/802.11g	
3	Ethernet	10 Base-T/100 Base-TX	



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Appendix

- Dell Technical Support Policy
- Warranty and Return Policy
- Contacting Dell

Dell Technical Support Policy

Technician-assisted technical support requires the cooperation and participation of the customer in the troubleshooting process and provides for restoration of the operating system, software program and hardware drivers to the original default configuration as shipped from Dell, as well as the verification of appropriate functionality of the printer and all Dell-installed hardware. In addition to this technician assisted technical support, online technical support is available at Dell Support. Additional technical support options may be available for purchase.

Dell provides limited technical support for the printer and any Dell-installed software and peripherals. Support for third-party software and peripherals is provided by the original manufacturer, including those purchased and/or installed through Software & Peripherals (DellWare), ReadyWare, and Custom Factory Integration (CFI/DellPlus).

Online Services

You can learn about Dell products and services on the following websites:

www.dell.com

www.dell.com/ap (Asian/Pacific countries only)

www.euro.dell.com (Europe only)

www.dell.com/la (Latin American and Caribbean countries)

www.dell.ca (Canada only)

You can access Dell Support through the following websites and e-mail addresses:

- Dell Support websites

  support.dell.com

  support.euro.dell.com (Europe only)

- Dell Support e-mail addresses

  mobile_support@us.dell.com

  support@us.dell.com

  la-techsupport@dell.com (Latin America and Caribbean countries only)

  apsupport@dell.com (Asian/Pacific countries only)

- Dell Marketing and Sales e-mail addresses

  apmarketing@dell.com (Asian/Pacific countries only)

  sales_canada@dell.com (Canada only)

- Anonymous file transfer protocol (FTP)

  ftp.dell.com

  Log in as user: anonymous, and use your e-mail address as your password.

Warranty and Return Policy

Dell Computer Corporation ("Dell") manufactures its hardware products from parts and components that are new or equivalent to new in accordance with industry-standard practices. For information about the Dell warranty for your printer, see **support.dell.com**.

Recycling Information

It is recommended that customers dispose of their used computer hardware, monitors, printers, and other peripherals in an environmentally sound manner. Potential methods include reuse of parts or whole products and recycling of products, components, and/or materials.

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For specific information on Dell's worldwide recycling programs, see **www.dell.com/recyclingworldwide**.

Contacting Dell

For customers in the United States, call 800-WWW-Dell (800-999-3355).

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, in your Dell catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit **support.dell.com**.
2. Verify your country or region in the **Choose A Country/Region** drop-down menu at the bottom of the page.
3. Click **Contact Us** on the left side of the page.
4. Select the appropriate service or support link based on your need.
5. Choose the method of contacting Dell that is convenient for you.

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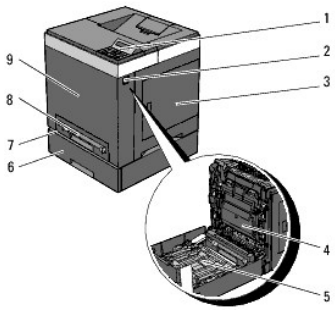
Dell™ 2130cn Color Laser Printer User's Guide

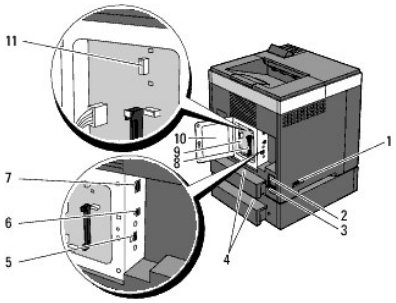
Click the links to the left for information on the features, options, and operation of your printer. For information on other documentation included with your printer, see "Finding Information".

Front View



1	Operator Panel	6	Optional 250-Sheet Feeder **NOTE:** Your printer allows for a maximum of 3 trays (standard 250-sheet tray, optional 250-sheet feeder, and single sheet feeder).
2	Side Button	7	Standard 250-Sheet Tray
3	Side Cover (toner cartridges inside)	8	Single Sheet Feeder
4	Belt Unit	9	Front Cover **NOTE:** You can open the front cover by pushing the Side Button.
5	Duplexer (Sold separately)		

Rear View



1	Power Switch	7	Ethernet Port
2	RESET button	8	Memory Slot
3	Power Connector	9	Control Board
4	Tray Rear Cover	10	Control Board Cover
5	Wireless Printer Adapter Socket	11	Network Protocol Adapter Socket
6	USB Port		

To order replacement toner cartridges or supplies from Dell:

1. Double-click the printer icon on your desktop.

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If you cannot find the icon on your desktop, follow the procedure below.

a. Click a **DLRMM.EXE** from "C:\Program Files\Dell Printers\Additional Color Laser Software\Reorder".

NOTE: "C:\Program Files\" may be different depending on the destination of the folder which you installed the Dell software and documentation.

b. Click **File** on the toolbar, and then click **Create Shortcut** on the drop- down menu that appears.

c. Right-click on the shortcut icon that is created.

d. Choose **Send To** from the drop-down menu, and then click **Desktop (create shortcut)** on the submenu that appears.

2. Visit the Dell Printer Supplies website at **www.dell.com/supplies**, or order Dell printer supplies by phone.

For best service, have your Dell printer Service Tag available.

For help locating your Service Tag number, see "Express Service Code and Service Tag number".

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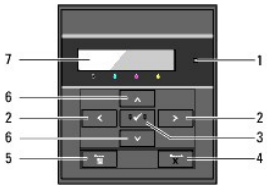
Operator Panel

- Using the Operator Panel Buttons
- Printing a Panel Settings Page

Using the Operator Panel Buttons

The printer operator panel has a 2-line by 16-character liquid crystal display (LCD), seven buttons, and two indicators that flash when the printer is ready to print, and when an error occurs.



1	Ready/Error indicator • Lights green when the printer is ready or sleeping and blinks when data is being received. • Lights orange when an error occurs and blinks when an unrecoverable print error occurs.	5	**(Menu)** button • In the Print mode, switches to the Menu mode. • In the Menu mode, switches to the Print mode.
2	< > buttons • In the Menu mode, selects submenus or setting values.	6	˅ ˄ buttons • In the Menu mode, scrolls through menus or items. To enter numbers or passwords for secure print jobs, press these buttons.
3	✓ **(Set)** button • In the Menu mode, displays the selected menu or item and determines the selected value.	7	LCD Panel
4	X **(Cancel)** button • Cancels the current print job. • In the topmenu of the Menu mode, switches to the Print mode. • In the submenu of the Menu mode, switches to the upper hierarchy of the menu.		

Printing a Panel Settings Page

The panel settings page shows current settings for the operator panel menus.

When Using the Operator Panel

1. Press **Menu** button.
2. Press ˅ button until Report/List appears, and then press ✓ **(Set)** button.
3. Press ˅ button until Panel Settings appears, and then press ✓ **(Set)** button.

When Using the Tool Box

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

   The **Select Printer** dialog box opens.

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2. Click the name of this printer listed in **Printer Name**, and then click **OK**.

   The **Tool Box** opens.

3. Click the **Printer Settings Report** tab.

4. Select **Reports** from the list at the left side of the page.

   The **Reports** page is displayed.

5. Click the **Panel Settings** button.

   The panel settings page is printed.

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Finding Information

NOTE: The following are options you need to buy separately.

- USB cable
- Ethernet cable
- Wireless printer adapter
- Network protocol adapter
- Optional 250-sheet feeder
- Duplexer
- 512 MB or 1024 MB memory

What are you looking for?	Find it here
• Drivers for my printer • My *User's Guide*	*Drivers and Utilities* CD The *Drivers and Utilities* CD contains Setup Video, documentation, and drivers for your printer. You can use the CD to uninstall/reinstall drivers or access your Setup Video and documentation. Readme files may be included on your CD to provide last-minute updates about technical changes to your printer or advanced technical reference material for experienced users or technicians.
• How to use my printer	*Owner's Manual* **NOTE:** The *Owner's Manual* may not be available in your country or region.
• Safety information • Warranty information	*Product Information Guide* **CAUTION: Read and follow all safety instructions in your *Product Information Guide* prior to setting up and operating your printer.**
How to set up my printer	*Setup diagram*
Troubleshooting	Troubleshooting Guide

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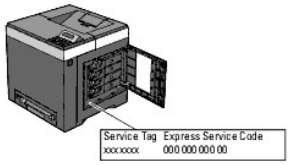
Express Service Code and Service Tag number	 The Express Service Code and Service Tag numbers are located inside the side door of your printer.
• Latest drivers for my printer • Answers to technical service and support questions • Documentation for my printer	See the Dell Support website at **support.dell.com** The Dell Support website, **support.dell.com** provides several online tools, including: ○ Solutions - Troubleshooting hints and tips, articles from technicians, and online courses ○ Upgrades - Upgrade information for components, such as printer driver ○ Customer Care - Contact information, order status, warranty, and repair information ○ Downloads - Drivers ○ Manuals - Printer documentation and product specifications You can access the Dell Support website at **support.dell.com**. Select your region on the support page, and fill in the requested details to access help tools and information.

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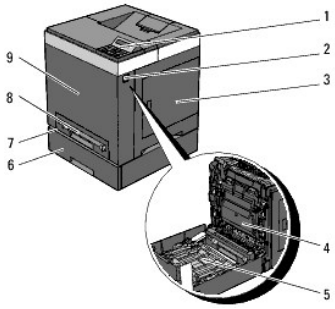
About Your Printer

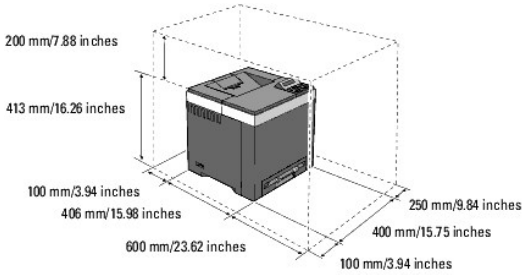
- Operator Panel
- Protecting Your Printer

The following illustrations show the standard Dell™ 2130cn Color Laser Printer.



1	Operator Panel	6	Optional 250-Sheet Feeder **NOTE:** Your printer allows for a maximum of 3 trays (standard 250-sheet tray, optional 250-sheet feeder, and single sheet feeder).
2	Side Button	7	Standard 250-Sheet Tray
3	Side Cover (toner cartridges inside)	8	Single Sheet Feeder
4	Belt Unit	9	Front Cover **NOTE:** You can open the front cover by pushing the Side Button.
5	Duplexer (Sold separately)		

Provide enough room to open the printer tray, covers, and option. It is also important to allow space around the printer for proper ventilation.



Operator Panel

For details on the operator panel, see "Operator Panel".

Protecting Your Printer

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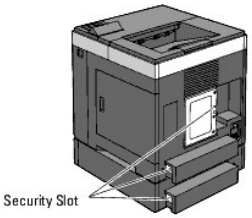
To protect your printer from theft, you can use the optional Kensington lock.

Attach the Kensington lock to the security slot of your printer.



For details, see the operating instructions supplied with the Kensington lock.

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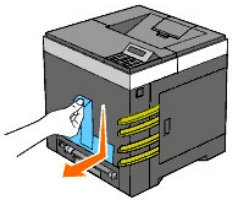
Installing the Print Head Device (PHD) Unit and Toner Cartridges

- Installing the Print Head Device (PHD) Unit
- Installing the Toner Cartridges

CAUTION: Before performing any of the following procedures, read and follow the safety instructions in your *Product Information Guide*.

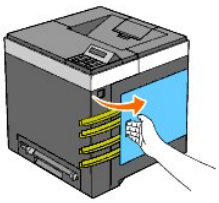
Installing the Print Head Device (PHD) Unit

1. Remove the tape from the printer and pull the protective sheet out of the printer.

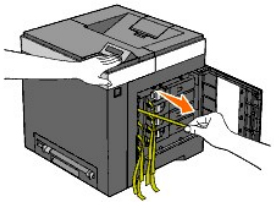


Installing the Toner Cartridges

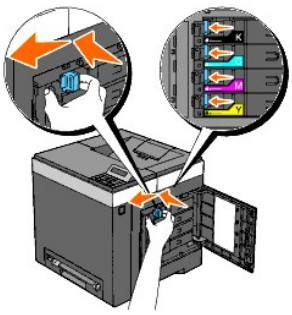
1. Open the side cover.



2. Completely remove the eight yellow ribbons.



3. Press and slide the blue latches of four toner cartridges to the locked position.



4. Close the side cover.

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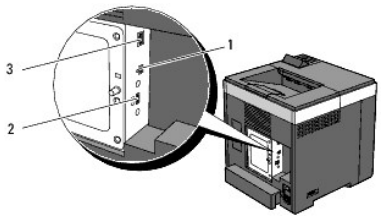
Connecting Your Printer

- Choosing the Right Cable
- Connecting the Printer Directly to a Computer
- Connecting the Printer to the Network
- Using the Reset Button

Choosing the Right Cable

Your Dell™ 2130cn Color Laser Printer interconnection cable must meet the following requirements:

Connection type	Connection specifications
USB	USB 2.0
Wireless (Option)	IEEE802.11b/802.11g
Ethernet	10 Base-T/100 Base-TX



1	USB Port	
2	Wireless Printer Adapter Socket	
3	Ethernet Port	

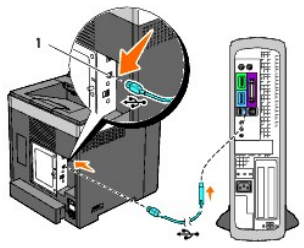
Connecting the Printer Directly to a Computer

A local printer is a printer attached to your computer using a USB cable. If your printer is attached to a network instead of your computer, skip this section and go to "Connecting the Printer to the Network".

Microsoft® Windows® 2000, Windows XP, Windows Server® 2003, Windows XP 64-bit Edition, Windows Server 2003 Enterprise x64 Edition, Windows Server 2008, Windows Server 2008 Enterprise x64 Edition, Windows Vista®, and Windows Vista 64-bit Edition support USB connections. See your computer operating system documentation to see if your system supports USB.

To attach the printer to a computer:

1. Ensure that the printer, computer, and any other attached devices are turned off and unplugged.
2. Connect the printer to the computer using a USB.



1	USB port

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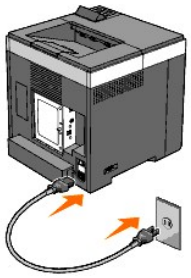
NOTICE: Do not plug a USB cable into the USB port on your keyboard (If present).

A USB port requires a USB cable. Ensure that you match the USB symbol on the cable to the USB symbol on the printer.

Plug the other end of the cable into a USB port on the back of the computer.

Turn On the Printer

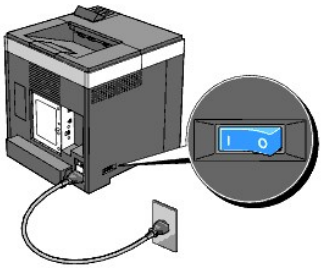
1. Connect the power cable to the printer and plug it into a power source.



Do not use extension cords or power strips.

The printer should not be plugged into a UPS system.

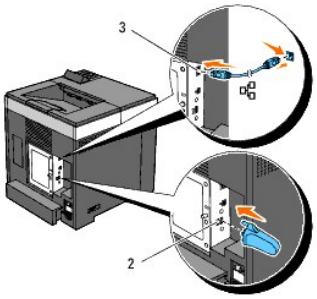
2. Turn on the computer and the printer.



Connecting the Printer to the Network

To attach the printer to a network:

1. Ensure the printer, computer, and any other attached devices are turned off and unplugged.
2. Connect the printer to the network using an Ethernet cable or the optional wireless printer adapter.



2	Wireless Printer Adapter Socket
3	Ethernet Port

NOTE: When the wireless printer adapter is connected, you cannot use the Ethernet port for a wired connection.

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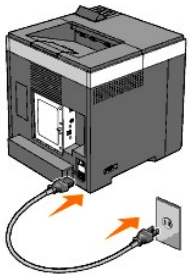
To connect the printer to the network, plug one end of an Ethernet cable into the Ethernet port on the back of the printer, and the other end into a LAN drop or hub. For a wireless connection, insert the wireless printer adapter into the wireless printer adapter socket on the back of the printer.

For a wireless connection, refer to "Installing and Configuring the Wireless Printer Adapter".

Turn On the Printer

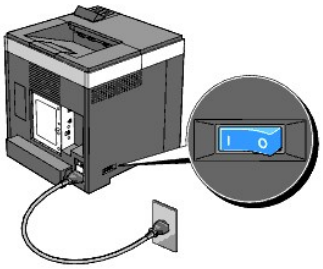
1. Plug one end of the power cable into the socket at the back of the printer and the other end into a properly grounded outlet.



Do not use extension cords or power strips.

The printer should not be plugged into a UPS system.

2. Turn on the computer and the printer.



Print and Check the Printer Settings Page

Print the printer settings page.

When Using the Operator Panel

1. Press **Menu** button.
2. Ensure Report/List appears, and then press ✓ **(Set)** button.
3. Printer Setting is displayed. Press ✓ **(Set)** button.

   The printer settings page is printed.
4. If the IP address shows anything other than 0.0.0.0 (the factory default) or 169.254.xx.xx, the printer has an IP address assigned and stored. Go to "Verify the IP Settings."

When Using the Tool Box

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

   The **Select Printer** dialog box opens.
2. Click the name of this printer listed in **Printer Name**, and then click **OK**.

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The **Tool Box** opens.

3. Click the **Printer Settings Report** tab.
4. Select **Reports** from the list at the left side of the page.

   The **Reports** page is displayed.

5. Click the **Printer Settings** button.

   The printer settings page is printed.

Assign an IP Address

NOTE: When you assign an IP address manually in **IPv6 Mode**, use the **Dell Printer Configuration Web Tool**. To open the **Dell Printer Configuration Web Tool**, use the link local address. (To check a link local address, see "Print and Check the Printer Settings Page".)

An IP address is a unique number that consists of four sections that are delimited by a period and can include up to three digits in each section, for example, `111.222.33.44`.

Assigning an IP address already in use can cause network performance issues.

NOTE: Assigning an IP address is considered as an advanced function and is normally done by a system administrator.

When Using the Operator Panel

For more information on using your operator panel, see "Operator Panel".

1. Turn on the printer.

   `Ready to Print` appears.

2. Press **Menu** button.
3. Press ⌄ button until `Admin Menu` appears, and then press ✓ **(Set)** button.
4. Press ⌄ button until `Network` appears, and then press ✓ **(Set)** button.
5. Press ⌄ button until `TCP/IP` appears, and then press ✓ **(Set)** button.
6. Press ⌄ button until `IPv4` appears, and then press ✓ **(Set)** button.
7. Press ⌄ button until `IP Address` appears, and then press ✓ **(Set)** button.
8. The cursor is located at the first digit of the IP address. Press ⌃ or ⌄ button to enter the numbers for the IP address.
9. Press › button.

   The cursor moves to the next digit.

10. Repeat steps 8 and 9 to enter all of the digits in the IP address, and then press ✓ **(Set)** button.
11. Press ‹ button.
12. Press ⌄ button until `Subnet Mask` appears, and then press ✓ **(Set)** button.
13. Repeat steps 8 to 9 to set Subnet Mask, and then press ✓ **(Set)** button.
14. Press ‹ button.
15. Press ⌄ button until `Gateway Address` appears, and then press ✓ **(Set)** button.
16. Repeat steps 8 to 9 to set Gateway Address, and then press ✓ **(Set)** button.

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17. Turn off the printer, and then turn it on again.

When Using the Tool Box (for IPv4 Mode)

NOTE: When you use **IPv6 Mode** for network printing, you cannot use Tool Box to assign an IP address.

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

   The **Select Printer** dialog box opens.

2. Click the name of this printer listed in **Printer Name**, and then click **OK**.

   The **Tool Box** opens.

3. Click the **Printer Maintenance** tab.

4. Select **TCP/IP Settings** from the list at the left side of the page.

   The **TCP/IP Settings** page is displayed.

5. Select the mode from **IP Address Mode**, and then enter the values in IP Address, Subnet Mask, and Gateway Address.

6. Press the **Apply New Settings** button to take effect.

The IP address is assigned to your printer. To verify the setting, open the web browser on any computer connected to the network and enter the IP address into the address bar on the browser. If the IP address is set up correctly, the **Dell Printer Configuration Web Tool** displays in your browser.

You can also assign the IP address to the printer when installing the printer drivers with installer. When you use the **Network Installation** feature, and the Get IP Address is set to AutoIP on the operator panel menu, you can set the IP address from 0.0.0.0 to the desired IP address on the printer selection window.

Verify the IP Settings

1. Print another printer settings page.

2. Look under the **TCP/IP** heading on the printer settings page to ensure that the IP address, subnet mask, and gateway are what you expected.

   or

   Ping the printer and verify that it responds. For example, at a command prompt on a network computer, type ping followed by the new IP address (for example, 192.168.0.11):

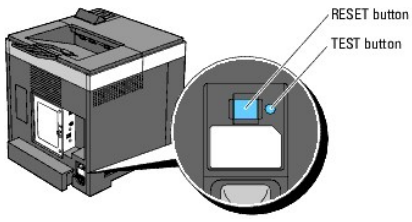
   ```
   ping 192.168.0.11
   ```

   If the printer is active on the network, you will receive a reply.

Using the Reset Button

Your printer is supplied with an electric leakage detector, which prevents electric shock or fire due to electric leakage by automatically cutting circuits inside the printer.

When electric leakage is detected, the **RESET** button is tripped. In this case, press the **RESET** button to turn the printer back on. If the **RESET** button trips again after pressing the **RESET** button, contact Dell.



Check whether or not the electric leakage detector is functioning at least once a month by following the steps below:

1. Turn on the printer, and then press the **TEST** button.
   - If the **RESET** button is tripped and the printer is turned off, the electric leakage detector functions correctly. Press the **RESET** button to turn the

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printer back on.

- If the **RESET** button is not tripped, contact Dell. Do not continue to use the printer if the electric leakage detector is not functioning.

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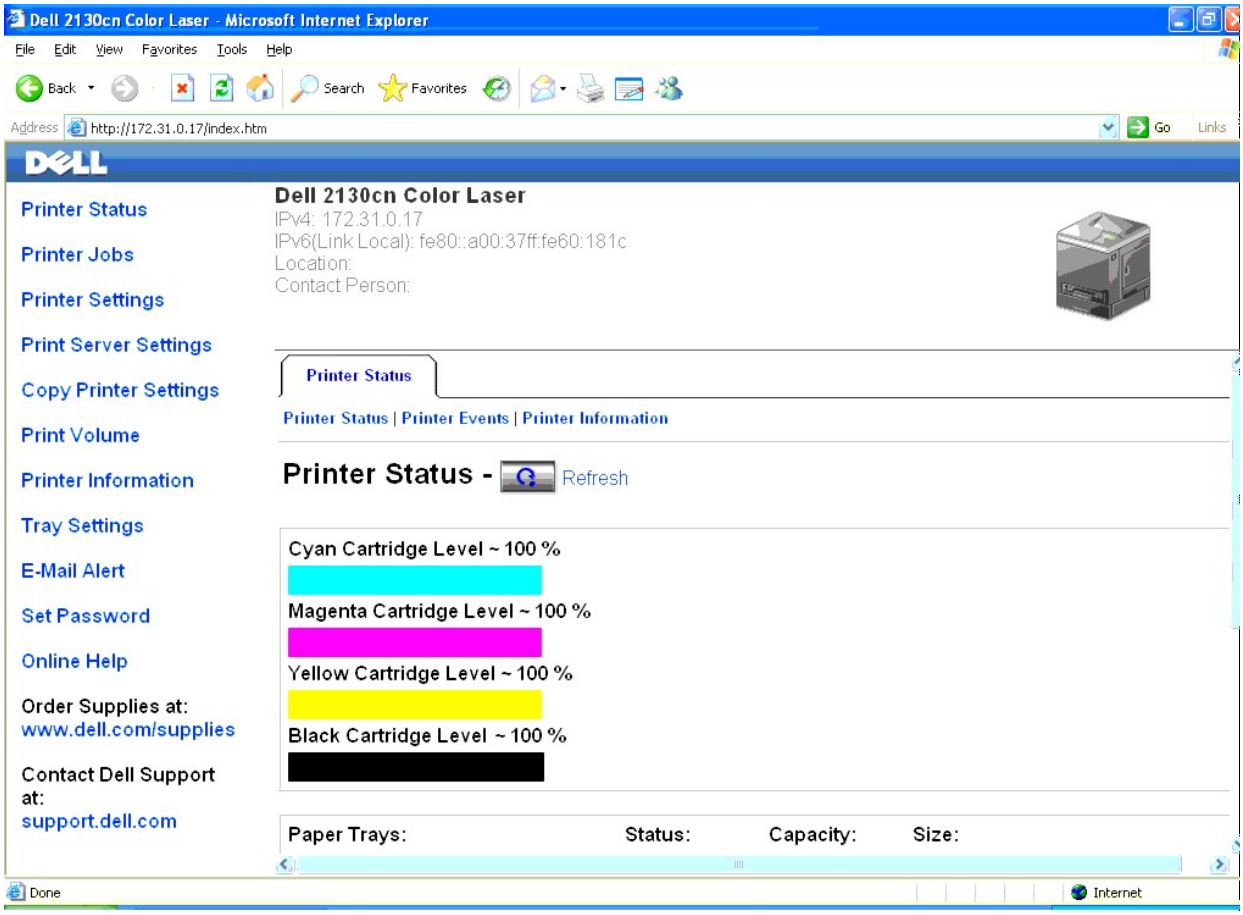
Dell Printer Configuration Web Tool

- Using the Dell Printer Configuration Web Tool
- Setting Up Your Web Browser
- Page Display Format
- Changing the Settings of the Menu Items

NOTE: This web tool is not available unless the printer is connected to a network using a network cable or the wireless printer adapter.

One of the features of the **Dell™ Printer Configuration Web Tool** is E-Mail Alert Setup, which sends an e-mail to you or the key operator when the printer needs supplies or intervention.

To fill out printer inventory reports requiring the asset tag number of all the printer in your area, use the **Printer Information** feature in the **Dell Printer Configuration Web Tool**. Just type the IP address of each printer on the network to display the asset tag number.



The **Dell Printer Configuration Web Tool** feature also allows you to change the printer settings and keep track of printing trends. If you are a network administrator, you can easily copy the printer settings to one or all printers on the network using your Web browser.

NOTE: When the authentication dialog appears on the screen, type a user name and password for the printer's administrator by following the prompts displayed in the dialog box. The default user name is **admin**, and the default password is left blank (NULL). You can change only the password in the **Set Password** page in the **Other Features** menu. The user name cannot be changed. See "Set Password" for more information.

To launch the **Dell Printer Configuration Web Tool**, type your printer's IP address in your Web browser.

If you do not know the IP address of your printer, print the printer settings page or display the TCP/IP settings page, which lists the IP address.

When Using the Operator Panel

1. Press **Menu** button.

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2. Press ⌄ button until Report/List appears, and then press ✓ **(Set)** button.
3. Printer Setting is displayed. Press ✓ **(Set)** button.

   The printer settings page is printed.

When Using the Tool Box

NOTE: When the printer is connected to the local port, **Network Settings** cannot be displayed.

1. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

   The **Select Printer** dialog box opens.
2. Click the name of this printer listed in **Printer Name**, and then click **OK**.

   The **Tool Box** opens.
3. Click the **Printer Maintenance** tab.
4. Select **Network Settings** from the list on the left side of the page.

   The **Network Settings** page is displayed.
5. Press the **Display** button.

   The printer settings page is printed.

If the IP address shows 0.0.0.0 (the factory default) or 169.254.xx.xx, an IP address has not been assigned. To assign one for your printer, see "Assign an IP Address".

Using the Dell Printer Configuration Web Tool

Use the **Dell Printer Configuration Web Tool** for:

Printer Status

Use the **Printer Status** menu to get immediate feedback on the printer supply status. When a toner cartridge is running low, click the order supplies link on the first screen to order an additional toner cartridge.

Printer Jobs

Use the **Printer Jobs** menu to contain information on the **Job List** page and **Completed Jobs** page.

These pages show the details of the status regarding each protocol or job.

Printer Settings

Use the **Printer Settings** menu to change printer settings and view the settings in the operator panel remotely.

Print Server Settings

Using the **Print Server Settings** menu, you can change the type of printer interface and necessary conditions for communications.

Copy Printer Settings

Use the **Copy Printer Settings** menu to copy the printer settings to another printer or printers on the network just by typing each printer's IP address.

NOTE: You must log in as an administrator to use this feature.

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Print Volume

Use the **Print Volume** option to check the histories of printing, such as paper usage and types of jobs being printed, and limit which users use the color mode and the maximum number of pages they can print.

Printer Information

Use the **Printer Information** menu to get the information on service calls, inventory reports, or the status of current memory and engine code levels.

Tray Settings

Use the **Tray Settings** menu to get the information about the paper type and size for each tray.

E-Mail Alert

Use the **E-Mail Alert** menu to receive an e-mail when the printer needs supplies or intervention. Type your name or the key operator's name in the e-mail list box to be notified.

Set Password

Use the **Set Password** menu to lock the **Dell Printer Configuration Web Tool** with a password so that other users do not inadvertently change the printer settings you selected.

NOTE: You must log in as an administrator to use this feature.

Online Help

Click **Online Help** to visit the Dell Support website.

Order Supplies at:

www.dell.com/supplies

Contact Dell Support at:

support.dell.com

Setting Up Your Web Browser

Ensure that you activate JavaScript in your browser before using the **Dell Printer Configuration Web Tool**.

It is recommended that you configure the environment settings for your Web browsers before using the **Dell Printer Configuration Web Tool**.

NOTE: The Dell Printer Configuration Web Tool pages may be displayed unreadable if the pages were configured by the language different from your web browser's.

For Internet Explorer® 6.0, Internet Explorer 7.0

Setting Up the Display Language

1. Select **Internet Options** from **Tools** on the menu bar.
2. Select **Languages** in the **General** tab.
3. Specify the display language in order of preference in the **Language** list.

   For example:

   - **Italian (Italy) [it]**

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- **Spanish (Traditional Sort) [es]**
- **German (Germany) [de]**
- **French (France) [fr]**
- **English [en]** or **English (United States) [en-us]**
- **Danish [da]**
- **Dutch [nl]**
- **Norwegian [no]**
- **Swedish [sv]**

Setting the Printer's IP Address to Non-Proxy

1. Select **Internet Options** from the **Tools** menu.
2. Click **LAN Settings** under **Local Area Network (LAN) Settings** in the **Connections** tab.
3. Do either of the following:
   - Clear the **Use a proxy sever for your LAN** check box under **Proxy server**.
   - Click **Advanced**, and then specify the printer's IP address in the **Do not use proxy server for addresses beginning with** field under **Exceptions**.

After setting the language and proxy, type <http://nnn.nnn.nnn.nnn/> (the printer's IP address) in the URL entry field of the browser to activate the **Dell Printer Configuration Web Tool**.

For Firefox 2.0 or Later

Setting Up the Display Language

1. Select **Options** from the **Tools** menu.
2. Click **Advanced**.
3. Click **Choose** in the **General** tab.
4. Specify the display language in order of preference in the **Languages in order of preference** list.

   For example:
   - **English [en]** or **English/United States [en-us]**
   - **Italian [it]**
   - **Spanish [es]**
   - **German [de]**
   - **French [fr]**
   - **Dutch [nl]**
   - **Norwegian [no]**
   - **Swedish [sv]**
   - **Danish [da]**

Setting the Printer's IP Address to Non-Proxy

1. Select **Options** from the **Tools** menu.
2. Click **Advanced** tab.
3. Click **Network** on the **Options** dialog box.
4. Click **Connection→ Settings**.
5. Do one of the following:

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- Select the **Direct connection to the Internet** check box.
- Select the **Auto-detect proxy settings for this network** check box.
- Select the **Manual proxy configuration** check box, and then enter the printer's IP address in the **No Proxy for** edit box.
- Select the **Automatic proxy configuration URL** check box.

After setting the language and proxy, type <http://nnn.nnn.nnn.nnn/> (the printer's IP address) in the URL entry field of the browser to activate the **Dell Printer Configuration Web Tool**.

Page Display Format

The layout of the page is divided into three sections mentioned below:

Top Frame

The Top Frame is located at the top of all pages. When **Dell Printer Configuration Web Tool** is activated, the current status and specifications of the printer are displayed in the Top Frame on every page.

The following items are displayed in the Top Frame.

Dell 2130cn Color Laser	Displays the printer's product name.
IP Address	Displays the printer's IP address.
Location	Displays the printer's location. The location can be changed in **Basic Information** on the **Print Server Settings** page.
Contact Person	Displays the name of the printer's administrator. The name can be changed in the **Basic Information** on the **Print Server Settings** page.
Printer Bitmap	Shows the bitmap image of the printer. The **Printer Status** menu appears in the Right Frame when you click the image.

Left Frame

The Left Frame is located at the left side of all pages. The menu titles displayed in the Left Frame are linked to corresponding menus and pages. You can go to the corresponding page by clicking their characters.

The following menus are displayed in the Left Frame.

Printer Status	Links to the **Printer Status** menu.
Printer Jobs	Links to the **Printer Jobs** menu.
Printer Settings	Links to the **Printer Settings Report** menu.
Print Server Settings	Links to the **Print Server Reports** menu.
Copy Printer Settings	Links to the **Copy Printer Settings** menu.
Print Volume	Links to the **Print Volume** menu.
Printer Information	Links to the **Printer Status** menu.
Tray Settings	Links to the **Tray Settings** menu.
E-Mail Alert	Links to the **Print Server Settings** menu.
Set Password	Links to the **Other Features** menu.
Online Help	Links to the Dell Support website.
Order Supplies at:	Links to the Dell web page.
Contact Dell Support at:	Links to the Dell support page web address: **support.dell.com /**

Right Frame

The Right Frame is located at the right side of all pages. The contents of the Right Frame correspond to the menu that you select in the Left Frame. For details on the items displayed in the Right Frame, see "Details of the Menu Items".

Buttons in the Right Frame

Refresh Button	Receives the current printer configuration and updates the latest information in the Right Frame.
Apply New Settings Button	Submits new settings made on the **Dell Printer Configuration Web Tool** to the printer. The old printer settings will be replaced by the new settings.
Restore Settings Button	Restores the old settings from before changes made. New settings will not be submitted to the printer.

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Changing the Settings of the Menu Items

Some menus allow you to change the printer settings through the **Dell Printer Configuration Web Tool**. When you are accessing these menus, the authentication dialog appears on the screen. Type a user name and password for the printer's administrator by following the prompts displayed in the dialog box.

The default user name is **admin**, and the default password is left blank (NULL). You can change only the password in the **Set Password** page in the **Other Features** menu. The user name cannot be changed. See "Set Password" for more information.

Details of the Menu Items

"Printer Status"		"Printer Status"
		"Printer Events"
		"Printer Information"
"Printer Jobs"		"Job List"
		"Completed Jobs"
"Printer Settings"	"Printer Settings Report"	"Menu Settings"
		"Reports"
	"Printer Settings"	"System Settings"
		"USB Settings"
		"PCL Settings"
		"Secure Settings"
	"Printer Maintenance"	"Paper Density"
		"Adjust BTR"
		"Adjust Fuser"
		"Auto Registration Adjustment"
		"Color Registration Adjustments"
		"Clean Developer"
		"Adjust Altitude"
		"Reset Defaults"
		"Storage"*1
		"Non-Dell Toner"
		"Initialize PrintMeter"
		"Web Link Customization"
"Print Server Settings"	"Print Server Reports"	"Print Server Setup Page"
		"NetWare Setup Page"*2
		"E-Mail Alert Setup Page"
	"Print Server Settings"	"Basic Information"
		"Port Settings"
		"Wireless LAN"*3
		"TCP/IP"
		"NetWare"*2
		"E-Mail Alert"
		"SNMP"*2
	"Other Features"	"Set Password"
		"SSL/TLS"*2
		"IPsec"
		"802.1x"*4
		"Reset Print Server"
"Copy Printer Settings"		"Copy Printer Settings"
		"Copy Printer Settings Report"
"Print Volume"		"Print Volume"
		"Dell ColorTrack"
"Tray Settings"		

*1 This item is only available when the RAM disk is set to on.

*2 An optional network protocol adapter is required to display the item.

*3 This item is only available when the optional wireless printer adapter is installed.

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*4 This item is only available when an optional network protocol adapter is installed and the optional wireless printer adapter is not installed.

Printer Status

Use the **Printer Status** menu to check the status of consumables, hardware, and specifications of the printer.

The following pages are displayed in the **Printer Status** menu.

Printer Status

Purpose:

To check the status of the consumables and trays.

Values:

Cyan Cartridge Level **Magenta Cartridge Level** **Yellow Cartridge Level** **Black Cartridge Level**			Displays the percent of toner remaining in each toner cartridge. When a cartridge is empty, a message appears. The text **Call or Order** is linked to the Dell Printer Supplies website.
Paper Trays	**Status**	**OK**	Indicates that there is some paper in the tray but the quantity is unknown.
		Add Paper	Indicates that there is no paper in the tray.
	Capacity		Displays the maximum capacity of the paper tray.
	Size		Displays the size of paper in the tray.
Output Tray	**Status**	**OK**	Indicates that the tray is available.
		Full	Indicates that the tray is not available.
	Capacity		Displays the maximum capacity of the paper tray.
Cover	**Status**	**Closed**	Indicates that the cover is closed.
		Open	Indicates that the cover is open.
Printer Type			Displays the type of the printer. **Color Laser** is displayed normally.
Printing Speed			Displays the printer's printing speed.

Printer Events

Purpose:

When faults occur, such as *Out of Paper* or *Front Cover is Open*, the details of all alerts or indications of faults are displayed in the **Printer Events** page.

Values:

Location	Displays the location where the error occurred.
Details	Displays the details of the error.

Printer Information

Purpose:

To verify the printer details such as the hardware configuration and software version. This page can also be displayed by clicking **Printer Information** in the Left Frame.

Values:

Dell Service Tag Number		Displays Dell's service tag number.
Asset Tag Number		Displays the printer's asset tag number.
Printer Serial Number		Displays the printer's serial number.
Memory Capacity		Displays the memory capacity.
Processor Speed		Displays the processing speed.
Printer Revision Levels	**Firmware Version**	Displays the revision date (revision level).
	Network Firmware Version	Displays the revision date (revision level).

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Printer Jobs

The **Printer Jobs** menu contains information on the **Job List** and **Completed Jobs** pages. These pages show the details of the status regarding each protocol or the print jobs.

Job List

Purpose:

To confirm the print jobs that are being processed. Click the **Refresh** button to update the screen.

Values:

ID	Displays the job ID.
Job Name	Displays the file name of the job being printed.
Owner	Displays the job owner's name.
Host Name	Displays the name of the host computer.
Job Status	Displays the status of the job being printed.
Host I/F	Displays the status of the host interface.
Job Submitted Time	Displays the date the print job was submitted.

Completed Jobs

Purpose:

To check the completed jobs. Up to the last 20 jobs are displayed. Click the **Refresh** button to update the screen.

Values:

ID	Displays the job ID.
Job Name	Displays the file name of the job.
Owner	Displays the job owner's name.
Host Name	Displays the name of the host computer.
Output Result	Displays the status of the job.
Impression Number	Displays the job's total number of pages.
No. of Sheets	Displays the job's total number of sheets.
Host I/F	Displays the status of the host interface.
Job Submitted Time	Displays the date the job was submitted.

Printer Settings

Use the **Printer Settings** menu to display the Printer Settings Report and to configure the printer settings.

The following tabbed pages are displayed at the top of the Right Frame.

Printer Settings Report

The **Printer Settings Report** tab includes the **Menu Settings** and **Reports** pages.

Menu Settings

Purpose:

To display the current settings of the operator panel menus.

Values:

	Power Saver Timer Mode 1	Displays the time for transition to Power Saver Mode 1.
	Power Saver Timer Mode 2	Displays the time for transition to Power Saver Mode 2.
	Control Panel Tone	Displays whether to emit the tone when the operator panel input is correct. **Off** indicates that the tone is disabled.

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System Settings	Invalid Key Tone	Displays whether to emit the tone when the operator panel input is incorrect. **Off** indicates that the tone is disabled.
	Machine Ready Tone	Displays whether to emit the tone when the printer becomes ready. **Off** indicates that the tone is disabled.
	Job Completed Tone	Displays whether to emit the tone when a print job is complete. **Off** indicates that the tone is disabled.
	Fault Tone	Displays whether to emit the tone when a job ends abnormally. **Off** indicates that the tone is disabled.
	Alert Tone	Displays whether to emit the tone when a problem occurs. **Off** indicates that the tone is disabled.
	Out of Paper Alert Tone	Displays whether to emit the tone when the printer runs out of paper. **Off** indicates that the tone is disabled.
	Low Toner Alert Tone	Displays whether to emit the tone when toner or some other consumable is low. **Off** indicates that the tone is disabled.
	Base Tone	Displays whether to emit the tone when the operator panel screen is returned to the default by scrolling the loop menu. **Off** indicates that the tone is disabled.
	Fault Time-Out	Displays the amount of time the printer cancels for a job stops abnormally.
	Time-Out	Displays the amount of time the printer waits for data to arrive from the computer.
	Panel Language	Displays the language used on the operator panel screen.
	Auto Log Print	Displays whether to automatically output a log of completed jobs.
	Print ID	Displays where to print a user ID on the output paper.
	Print Text	Displays whether the printer outputs PDL (Page Description Language) data, which is not supported by the printer, as text when the printer receives it.
	Banner Sheet Insert Position	Displays where to insert a banner sheet.
	Banner Sheet Specify Tray*1	Displays which input tray to use to insert a banner sheet.
	RAM Disk*2	Displays whether to allocate RAM for the file system for the Secure Print and Proof Print features.
	Odd Page 2 Sided*3	Displays how the odd last page is printed when using duplex printing.
	Substitute Tray	Displays whether to use another size paper when the paper that is loaded in the specified tray does not match the paper size settings for the current job.
	mm / inch	Displays the measurement unit used on the operator panel screen.
USB Settings	Port Status	Displays whether the USB interface is enabled.
PCL Settings	Paper Tray	Displays the paper tray setting.
	Paper Size	Displays the paper size setting.
	Custom Size - Y	Displays the length of custom size paper.
	Custom Size - X	Displays the width of custom size paper.
	Orientation	Displays how text and graphics are oriented on the page.
	2 Sided*3	Displays whether to do duplexing as the default for all print jobs.
	Font	Displays the selected font from the list of registered fonts.
	Symbol Set	Displays a symbol set for the specified font.
	Font Size	Displays the font size for scalable typographic fonts.
	Font Pitch	Displays the font pitch for scalable monospaced fonts.
	Form Line	Displays the number of characters in a line.
	Quantity	Displays the number of copies to print.
	Image Enhancement	Displays whether the Image Enhancement feature is enabled.
	Hex Dump	Displays whether the Hex Dump feature is enabled.
	Draft Mode	Displays whether to print in the draft mode.
	Line Termination	Displays whether to set the line termination.
	Default Color	Displays the color mode setting.
Secure Settings	Panel Lock Set	Displays whether to lock Admin Menu with a password.
Paper Density	Plain	Displays the paper density of plain paper.
	Label	Displays the paper density of labels.
Adjust BTR	Plain	Displays the voltage setting of the transfer roller (from -6 to 6) for plain paper.
	Plain Thick	Displays the voltage setting of the transfer roller (from -6 to 6) for thick plain paper.
	Transparency	Displays the voltage setting of the transfer roller (from -6 to 6) for transparencies.
	Covers	Displays the voltage setting of the transfer roller (from -6 to 6) for cover paper.
	Covers Thick	Displays the voltage setting of the transfer roller (from -6 to 6) for thick cover paper.
	Label	Displays the voltage setting of the transfer roller (from -6 to 6) for labels.
	Coated	Displays the voltage setting of the transfer roller (from -6 to 6) for coated paper.
	Coated Thick	Displays the voltage setting of the transfer roller (from -6 to 6) for thick coated paper.
	Envelope	Displays the voltage setting of the transfer roller (from -6 to 6) for envelopes.
	Recycled	Displays the voltage setting of the transfer roller (from -6 to 6) for recycled paper.
	Plain	Displays the temperature setting of the fuser (from -6 to 6) for plain paper.
	Plain Thick	Displays the temperature setting of the fuser (from -6 to 6) for thick plain paper.
	Transparency	Displays the temperature setting of the fuser (from -6 to 6) for transparency.

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Adjust Fuser	**Covers**	Displays the temperature setting of the fuser (from -6 to 6) for cover paper.
	Covers Thick	Displays the temperature setting of the fuser (from -6 to 6) for thick cover paper.
	Label	Displays the temperature setting of the fuser (from -6 to 6) for labels.
	Coated	Displays the temperature setting of the fuser (from -6 to 6) for coated paper.
	Coated Thick	Displays the temperature setting of the fuser (from -6 to 6) for thick coated paper.
	Envelope	Displays the temperature setting of the fuser (from -6 to 6) for envelopes.
	Recycled	Displays the temperature setting of the fuser (from -6 to 6) for recycled paper.
Auto Registration Adjustment		Displays whether to automatically perform color registration adjustment.
Adjust Altitude		Displays the altitude of the location where the printer is installed.
Non-Dell Toner		Displays whether or not to use another manufacturer's toner cartridge.
Web Link Customization	**Select Reorder URL**	Displays a link used for ordering consumables, which can be accessed from **Order Supplies at:** in the Left Frame.
	Regular	Displays the regular URL (**http://accessories.us.dell.com/sna**) that can be linked to **Order Supplies at:**.
	Premier	Displays the premier URL (**http://premier.dell.com**) that can be linked to **Order Supplies at:**.
Tray Settings	**Tray 1 Paper Type**	Displays the paper type setting of the standard 250-sheet tray.
	Tray 1 Paper Size	Displays the paper size setting of the standard 250-sheet tray.
	Tray 1 Custom Size - Y	Displays the length of custom size paper loaded in the standard 250-sheet tray.
	Tray 1 Custom Size - X	Displays the width of custom size paper loaded in the standard 250-sheet tray.
	Tray 2 Paper Type*[1]	Displays the paper type setting of the optional 250-sheet feeder.
	Tray 2 Paper Size*[1]	Displays the paper size setting of the optional 250-sheet feeder.
	Display Popup	Displays a popup menu that prompts to set the paper size and type when paper is loaded in the standard 250-sheet tray and optional 250-sheet feeder.

*[1] This item is only available when the optional 250-sheet feeder is installed.

*[2] This item is only available when the 512 MB, or higher, optional memory is installed.

*[3] This item is only available when the optional duplexer is installed.

Reports

Purpose:

To print various types of reports and lists.

Values:

Printer Settings	Click the **Start** button to print the printer settings page.
Panel Settings	Click the **Start** button to print the panel settings page.
PCL Fonts List	Click the **Start** button to print the PCL (Hewlett-Packard Printer Control Language) Fonts List.
PCL Macro List	Click the **Start** button to print the PCL Macro List.
Job History	Click the **Start** button to print the Job History report.
Error History	Click the **Start** button to print the Error History report.
Print Meter	Click the **Start** button to print the Print Meter report.
Color Test Page	Click the **Start** button to print the Color Test Page.
Stored Documents	Click the **Start** button to print the Stored Documents list. This item is only available when the 512 MB, or higher, optional memory is installed and RAM Disk is set to on.

Printer Settings

The **Printer Settings** tab includes **System Settings**, **USB Settings**, **PCL Settings**, and **Panel Settings** pages.

System Settings

Purpose:

To configure the basic printer settings.

Values:

Power Saver Timer Mode 1	Sets the time for transition to Power Saver Mode 1.

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Power Saver Timer Mode 2	Sets the time for transition to Power Saver Mode 2.
Control Panel Tone	Specifies whether to enable the tone that is emitted when the operator panel input is correct.
Invalid Key Tone	Specifies whether to enable the tone that is emitted when the operator panel input is incorrect.
Machine Ready Tone	Specifies whether to enable the tone that is emitted when the printer becomes ready.
Job Completed Tone	Specifies whether to enable the tone that is emitted when a print job is complete.
Fault Tone	Specifies whether to enable the tone that is emitted when a job ends abnormally.
Alert Tone	Specifies whether to enable the tone that is emitted when a problem occurs.
Out of Paper Alert Tone	Specifies whether to enable the tone that is emitted when the printer runs out of paper.
Low Toner Alert Tone	Specifies whether to enable the tone that is emitted when toner or some other consumable is low.
Base Tone	Specifies whether to enable the tone that is emitted when the operator panel screen returns to the default by scrolling the loop menu.
Fault Time-Out	Specifies in seconds the amount of time the printer should cancel for a job stops abnormally. The print job is cancelled if the time-out time is exceeded.
Time-Out	Specifies in seconds the amount of time the printer should wait for data to arrive from the computer. The print job is cancelled if the time-out time is exceeded.
Panel Language	Sets the language to be used on the operator panel.
Auto Log Print	Specifies whether to automatically print a log of completed jobs after every 20 jobs.
Print ID	Specifies where to print the user ID on the output paper.
Print Text	Specifies whether the printer outputs PDL data, which is not supported by the printer, as text when the printer receives it.
Banner Sheet Insert Position	Specifies where to insert a banner sheet.
Banner Sheet Specify Tray*[1]	Specifies which input tray to use to insert a banner sheet.
RAM Disk	Specifies whether to allocate RAM for the file system for the Secure Print and Proof Print features. This item is only available when the 512 MB, or higher, optional memory is installed.
Odd Page 2 Sided*[2]	Specifies how the odd last page is printed when using duplex printing.
Substitute Tray	Specifies whether or not to use another size paper when the paper that is loaded in the specified tray does not match the paper size settings for the current job.
mm / inch	Specifies the measurement unit to be used on the operator panel screen as either mm or inches.
*[1] This item is only available when the optional 250-sheet feeder is installed. *[2] This item is only available when the optional duplexer is installed.	

USB Settings

Purpose:

To change printer settings affecting a USB port.

Values:

Port Status	Specifies whether to enable the USB interface.

PCL Settings

Purpose:

To change the printer settings that only affect jobs using the PCL emulation printer language.

Values:

Paper Tray	Specifies the input tray.
Paper Size	Specifies the paper size.
Custom Size - Y	Specifies the length of custom size paper.
Custom Size - X	Specifies the width of custom size paper.
Orientation	Specifies how text and graphics are oriented on the page.
2 Sided	Sets duplexing as the default for all print jobs. This item is only available when the optional duplexer is installed.
Font	Specifies the font from the list of registered fonts.
Symbol Set	Specifies a symbol set for the specified font.
Font Size	Specifies the font size for scalable typographic fonts.
Font Pitch	Specifies the font pitch for scalable monospaced fonts.
Form Line	Specifies the number of characters in a line.
Quantity	Sets the number of copies to print.

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Image Enhancement	Specifies whether to enable the Image Enhancement feature.
Hex Dump	Specifies whether to help isolate the source of a print job problem. With Hex Dump selected, all data sent to the printer is printed in hexadecimal and character representation. Control codes are not executed.
Draft Mode	Specifies whether to print in the draft mode.
Line Termination	Specifies how to handle line terminations.
Default Color	Specifies the print color mode to **Color** or **Black**. This setting is used for print jobs without a specified color print mode.

Secure Settings

Panel Lock

Purpose:

To set whether to lock Admin Menu with a password, and to set or change the password.

Values:

Panel Lock Set	Sets whether to lock Admin Menu with a password.
New Password	Sets a password that is required to access Admin Menu.
Re-enter Password	Enter the new password again to confirm.

NOTE: This menu sets a password to lock the operator panel. When changing the password for the **Dell Printer Configuration Web Tool**, click **Set Password** on the Left Frame and set the password.

Printer Maintenance

The **Printer Maintenance** tab includes **Paper Density**, **Adjust BTR**, **Adjust Fuser**, **Auto Registration Adjustment**, **Color Registration Adjustments**, **Clean Developer**, **Adjust Altitude**, **Reset Defaults**, **Storage**, **Non-Dell Toner**, **Initialize PrintMeter**, and **Web Link Customization** pages.

Paper Density

Purpose:

To specify the paper density.

Values:

Plain	Sets the density of plain paper to **Light** or **Normal**.
Label	Sets the density of labels to **Light** or **Normal**.

Adjust BTR

Purpose:

To specify the reference voltage settings for the transfer roller.

Values:

Plain	Sets the reference voltage setting for the transfer roller for plain paper within the range of -6 to 6.
Plain Thick	Sets the reference voltage setting for the transfer roller for thick plain paper within the range of -6 to 6.
Transparency	Sets the reference voltage setting for the transfer roller for transparencies within the range of -6 to 6.
Covers	Sets the reference voltage setting for the transfer roller for cover paper within the range of -6 to 6.
Covers Thick	Sets the reference voltage setting for the transfer roller for thick cover paper within the range of -6 to 6.
Label	Sets the reference voltage setting for the transfer roller for labels within the range of -6 to 6.
Coated	Sets the reference voltage setting for the transfer roller for coated paper within the range of -6 to 6.
Coated Thick	Sets the reference voltage setting for the transfer roller for thick coated paper within the range of -6 to 6.
Envelope	Sets the reference voltage setting for the transfer roller for envelopes within the range of -6 to 6.
Recycled	Sets the reference voltage setting for the transfer roller for recycled paper within the range of -6 to 6.

Adjust Fuser

Purpose:

To specify the temperature settings value for the fuser.

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Values:

Plain	Sets the temperature settings for the fuser for plain paper within the range of -6 to 6.
Plain Thick	Sets the temperature settings for the fuser for thick plain paper within the range of -6 to 6.
Transparency	Sets the temperature settings for the fuser for transparencies within the range of -6 to 6.
Covers	Sets the temperature settings for the fuser for cover paper within the range of -6 to 6.
Covers Thick	Sets the temperature settings for the fuser for thick cover paper within the range of -6 to 6.
Label	Sets the temperature settings for the fuser for labels within the range of -6 to 6.
Coated	Sets the temperature settings for the fuser for coated paper within the range of -6 to 6.
Coated Thick	Sets the temperature settings for the fuser for thick coated paper within the range of -6 to 6.
Envelope	Sets the temperature settings for the fuser for envelopes within the range of -6 to 6.
Recycled	Sets the temperature settings for the fuser for recycled paper within the range of -6 to 6.

Auto Registration Adjustment

Purpose:

To specify whether to automatically perform color registration adjustment.

Color Registration Adjustments

Purpose:

To specify whether to manually perform color registration adjustment.

Manual Color Registration Adjustments are required such as after the printer is moved.

NOTE: The **Color Registration Adjustments** feature can be configured when **Auto Registration Adjustment** is set to **Off**.

Values:

Auto Correct	Click **Start** to Automatically performs color registration correction.
Color Regi Chart	Click **Start** to print a color registration chart. The color registration chart prints a lattice pattern of yellow, magenta, and cyan lines. On the chart, find the values on the right side that are next to the straightest lines for each of the three colors. If the value for the straightest line is 0, color registration adjustment is not required. If the value for the straightest line is any value other than 0, specify the adjustment values under **Color Registration Adjustments**.
Enter Number	Specifies fast scan (perpendicular to paper feed direction) and slow scan (paper feed direction) color adjustment values individually for Yellow, Magenta, and Cyan within the range of -9 to 9.

Clean Developer

Purpose:

To clean each toner cartridge or PHD unit, or to stir toner in a new toner cartridge.

Values:

Clean Developer	Stirs toner in a new toner cartridge.
Yellow Toner Refresh	Cleans the toner in the yellow toner cartridge.
Magenta Toner Refresh	Cleans the toner in the magenta toner cartridge.
Cyan Toner Refresh	Cleans the toner in the cyan toner cartridge.
Black Toner Refresh	Cleans the toner in the black toner cartridge.
Drum Refresh	Cleans the surface of the PHD unit.

Adjust Altitude

Purpose:

To specify the altitude of the location where the printer is installed.

The discharge phenomenon for charging the photo conductor varies with barometric pressure. Adjustments are performed by specifying the altitude of the location where the printer is being used.

Reset Defaults

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Purpose:

To initialize the NV (nonvolatile) memory. After executing this function to automatically restart the printer and rebooting the printer, all the menu parameters are reset to their default values.

Values:

Reset Defaults and restart printer.	Click **Start** to initialize the non-volatile memory (NVM).

Storage

Purpose:

To clear all files stored in the RAM Disk.

Values:

Clear Storage	Click **Start** to clear all files that are stored as Secure and Proof Print in the RAM disk. This item is only available when the RAM disk is set to on.

Non-Dell Toner

Purpose:

To specify whether or not to use another manufacturer's toner cartridge.

NOTICE: Use of a non-Dell toner cartridge may result in some of the printer's functions to be unavailable, a reduction in print quality, or deterioration of printer's reliability. Use of a new Dell brand toner cartridge is recommended for your printer. The Dell warranty does not cover any problems caused by the use of any accessory, part, or component that is not supplied by Dell.

NOTE: Before you use another manufacture's toner cartridge, be sure to restart the printer.

Initialize PrintMeter

Purpose:

To initialize the print meter of the printer. When the print meter is initialized, the meter count is reset to 0.

Web Link Customization

Purpose:

To specify a link used for ordering consumables, which can be accessed from **Order Supplies at:** in the Left Frame.

Values:

Select Reorder URL	Select the regular or premier URL to be linked to **Order Supplies at:**.
Regular	Displays the regular URL (**http://accessories.us.dell.com/sna**) that can be linked to **Order Supplies at:**.
Premier	Displays the premier URL (**http://premier.dell.com**) that can be linked to **Order Supplies at:**.

Print Server Settings

Use the **Print Server Settings** menu to set the type of printer interface and necessary conditions for communications.

The following tabbed pages are displayed in the top of the Right Frame.

Print Server Reports

The **Print Server Reports** tab includes **Print Server Setup Page**, **NetWare Setup Page**, and **E-Mail Alert Setup Page**.

Print Server Setup Page

Purpose:

To verify the current settings of TCP/IP (Transmission Control Protocol/Internet Protocol) and printing ports. On this page, you can only verify the settings of

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items. If you want to change the settings, go to the pages in the **Print Server Settings** tab.

Values:

Ethernet*1	**Ethernet Settings**	Displays the current settings of Ethernet transmission rate and the duplex settings.	
	Current Ethernet Settings	Displays the current Ethernet settings.	
	MAC Address	Displays the printer's MAC address.	
Wireless Settings*2	**SSID**	Displays the name that identifies the network.	
	Network Type	Displays the network type from either the Ad-Hoc or Infrastructure mode.	
	MAC Address	Displays the MAC address of the wireless printer adapter.	
	Link Channel	Displays the channel number of the connection.	
	Link Quality	Displays the quality of the connection.	
TCP/IP Settings	**IP Mode**	Displays the IP mode.	
	Host Name	Displays the host name.	
	IPv4	**IP Address Mode**	Displays the IP address mode.
		IP Address	Displays the IP address.
		Subnet Mask	Displays the subnet mask.
		Gateway Address	Displays the gateway address.
	IPv6	**Use Manual Address**	Displays whether to set the IP address manually.
		Manual Address	Displays the IP address.
		Stateless Address 1-3	Displays the stateless addresses.
		Link Local Address	Displays the link local address.
		Manual Gateway Address	Displays the gateway address.
		Auto Configure Gateway Address	Displays the gateway address.
DNS	**IPv4**	**Get DNS Server Address from DHCP**	Displays whether to automatically get a DNS (Domain Name System) server address from the DHCP (Dynamic Host Configuration Protocol) server.
		Current DNS Server Address	Displays the DNS server address.
	IPv6	**Get DNS Server Address from DHCPv6-lite**	Displays whether to automatically get a DNS server address from the DHCPv6-lite server.
		Current DNS Server Address	Displays the DNS server address.
	Priority to IPv6 DNS Name Resolution*3	Displays whether to use the DNS Name Resolution feature.	
LPD	**Port Status**	Displays the port status.	
	Connection Time-Out	Displays the connection timeout period.	
Port9100	**Port Status**	Displays the port status.	
	Port Number	Displays the port number.	
	Connection Time-Out	Displays the connection timeout period.	
WSD*4	**Port Status**	Displays the WSD port status.	
	Port Number	Displays the WSD port number.	
	Receive Time-Out	Displays the receive timeout period.	
	Notification Time-Out	Displays the notification timeout period.	
	Maximum Number of TTL	Displays the maximum number of TTLs.	
	Maximum Number of Notification	Displays the maximum number of notifications.	
HTTP	**Port Status**	Displays the port status.	
	Port Number	Displays the port number.	
	Simultaneous Connections	Displays the number of connections received simultaneously by the client.	
	Connection Time-Out	Displays the connection timeout period.	
SNMP	**Port Status**	Displays the port status.	
	Enable SNMP v1/v2c Protocol*4	Displays the status of the **SNMP v1/v2c** feature.	
	Enable SNMP v3 Protocol*4	Displays the status of the **SNMP v3** feature.	
SSL/TLS*4	**HTTPS**	Displays the HTTPS status.	
	Port Number	Displays the port number.	
IPsec Settings*4	**Protocol**	Displays the protocol status.	
	IKE	Displays to use a pre shared key for IKE authentication.	
	IKE SA Lifetime	Displays the lifetime for IKE SA.	
	IPsec SA Lifetime	Displays the lifetime for IPsec SA.	
	DH Group	Displays the DH group.	
	PFS	Displays the PFS status.	

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	Remote peers IPv4 address	Displays the IP address to connect to.
	Remote peers IPv6 address	Displays the IP address to connect to.
	Non IPsec communication policy	Displays the status of the **Non IPsec communication policy** feature.
802.1x[*1][*4]	**Enable IEEE 802.1x**	Displays the status of IEEE 802.1x.
	Authentication Method	Displays the setting of authentication method for IEEE 802.1x.
IP Filter (IPv4)[*5]	**Access List**	Displays the list of IP addresses that are permitted or denied access to the printer.

[*1] This settings are not displayed when the optional wireless printer adapter is installed.

[*2] An optional wireless printer adapter is required to display the item.

[*3] This item is only available when using Ipv6 dual mode.

[*4] An optional network protocol adapter is required to display the item.

[*5] This item is only available for LPD or Port9100.

NetWare Setup Page

Purpose:

To verify the current settings of Netware. In this page, you can only verify the settings of items. If you want to change the settings, go to the pages in the **Print Server Settings** tab.

Values:

NetWare	**Port Status**	Displays the port status.
	Device Name	Displays the printer name.
	Active Mode	Displays the current mode for Active Mode.
	Tree Name	Displays the tree name.
	Context Name	Displays the context name of the Print Server Object.
	Polling Interval	Displays the time interval.
	Status Information	Displays messages according to the conditions of the printer.
SLP	**Active Discovery**	Displays whether active discovery is enabled.

NOTE: An optional network protocol adapter is required to display the **NetWare Setup Page**.

E-Mail Alert Setup Page

Purpose:

To verify the current settings of SMTP/POP (Simple Mail Transfer Protocol/Post Office Protocol) used for the e-mail feature and E-Mail Alerts feature. In this page, you can only verify the settings of items. If you want to change the settings, go to the pages in the **Print Server Settings** tab.

Values:

E-Mail Server Settings	**Port Status**	Displays the port status.	
	Primary SMTP Gateway	Displays the primary SMTP (Simple Mail Transfer Protocol) gateway.	
	SMTP Port Number	Displays the SMTP port number.	
	E-Mail Send Authentication	Displays the authentication method for outgoing e-mail.	
	POP3 Server Address	Displays the POP3 (Post Office Protocol 3) server address.	
	POP3 Port Number	Displays the POP3 port number.	
	Reply Address	Displays the IP address of servers connected with SMTP protocol when data is incoming.	
	SMTP Server Connection	Displays the status of the SMTP server connection.	
E-Mail Alert Settings	**E-Mail List 1**	Displays the acceptable e-mail addresses for the E-Mail Alert feature specified in **E-mail List 1**.	
	Select Alerts for List 1	**Supplies Alerts**	Displays the status, and whether to receive an E-Mail Alert, for consumables.
		Paper Handling Alerts	Displays the status, and whether to receive an E-Mail Alert, for paper handling.
		Service Call	Displays the status, and whether to receive an E-Mail Alert, for Service Calls.
	E-Mail List 2	Displays the acceptable e-mail addresses for the E-Mail Alert feature specified in **E-mail List 2**.	
	Select Alerts for List 2	**Supplies Alerts**	Displays the status, and whether to receive an E-Mail Alert, for consumables.
		Paper Handling Alerts	Displays the status, and whether to receive an E-Mail Alert, for paper handling.
		Service Call	Displays the status, and whether to receive an E-Mail Alert, for Service Calls.

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Print Server Settings

The **Print Server Settings** tab includes **Basic Information**, **Port Settings**, **Wireless LAN**, **TCP/IP**, **NetWare**, **E-Mail Alert**, and **SNMP** pages.

Basic Information

Purpose:

To configure the printer's basic information.

Values:

System Settings	**Printer Name**	Specifies the name of the printer using up to 31 alphanumeric characters.
	Location	Specifies the location of the printer using up to 63 alphanumeric characters.
	Contact Person	Specifies the contact name, number, and other information of the printer's administrator and service center using up to 63 alphanumeric characters.
	Administrator E-Mail Address	Specifies the contact address of the printer's administrator and service center using up to 63 alphanumeric characters.
	Asset Tag Number	Enter the asset tag number for the printer.
EWS Settings	**Auto Refresh**	Sets whether or not to automatically refresh the contents of the status display pages.
	Auto Refresh Interval	Sets the time interval for refreshing the contents of the status display pages automatically from 15 to 600 seconds.

NOTE: The **Auto Refresh** feature is effective for the contents of the Top Frame, **Printer Status** page, **Job List** page, and **Completed Jobs** page.

Port Settings

Purpose:

To specify whether to enable or disable printing ports and management protocol features.

Values:

Ethernet*1	**Ethernet Settings**	**Auto**	Detects Ethernet transmission rate and the duplex settings automatically.
		10BASE-T Half-Duplex	Selects 10Base-T Half-Duplex as the default value.
		10BASE-T Full-Duplex	Selects 10Base-T Full-Duplex as the default value.
		100BASE-TX Half-Duplex	Selects 100Base-T Half-Duplex as the default value.
		100BASE-TX Full-Duplex	Selects 100Base-T Full-Duplex as the default value.
	Current Ethernet Settings		Displays the current settings of Ethernet.
	MAC Address	Displays the printer's MAC address.	
Port Status	**LPD**	Select the check box to enable LPD.	
	Port9100	Select the check box to enable Port9100.	
	WSD*2	Select the check box to enable the WSD port.	
	NetWare*2	Select the check box to enable the NetWare port. You can also configure the transport protocol to be used. TCP/IP can be selected as the transport protocol.	
	E-Mail Alert	Select the check box to enable the **E-Mail Alert** feature.	
	SNMP	Select the check box to enable the SNMP (Simple Network Management Protocol). You can also configure the transport protocol to be used. UDP can be selected as the transport protocol.	

*1 The **Ethernet** settings are not displayed when the optional wireless printer adapter is installed.

*2 An optional network protocol adapter is required to display the item.

NOTE: The settings in the **Port Settings** page will be valid only when the printer is rebooted. When you change or configure the settings, click the **Apply new settings** button to apply new settings.

Wireless LAN

Purpose:

To configure the detailed setting for the wireless network.

Values:

	SSID	Specifies the name that identifies the wireless network. Up to 32 alphanumeric characters.
	Network Type	Specifies the network type from either **Ad-Hoc** or **Infrastructure**.

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Wireless Settings	**MAC Address**	Displays the MAC address of the printer's wireless network adapter.
	Link Channel	Displays the channel number of the printer's wireless connection.
	Link Quality	Displays the quality of the printer's wireless network connection.
Security Settings	**Encryption**	Select the security method from the list.
	WEP Key Code	Select the WEP key code from either **Hex** or **Ascii**.
	WEP Key (Password)	Specifies the WEP key set used through the wireless network only when **WEP 128bits** or **WEP 64bits** is selected for **Encryption**.
	Re-enter WEP Key	Enter the WEP key again to confirm it.
	Transmit Key (Index)	Specifies the transmit key from the list.
	Pass Phrase (Password)	Specifies the pass phrase from 8 to 63 alphanumeric characters only when **WPA2-PSK AES** or **WPA-PSK AES**, **WPA-PSK TKIP** is selected for **Encryption**.
	Re-enter Pass Phrase	Enter the pass phrase again to confirm it.

NOTE: An optional wireless printer adapter is required to display the **Wireless LAN** page.

TCP/IP

Purpose:

To configure the IP address, subnet mask, and gateway address of the printer.

Values:

TCP/IP Settings	**IP Mode**	Specifies the IP mode.	
	Host Name	Specifies the host name.	
	IPv4	**IP Address Mode**	Selects the IP address mode.
		Manual IP Address	Sets the IP address.
		Manual Subnet Mask	Sets the subnet mask.
		Manual Gateway Address	Sets the gateway address.
	IPv6	**Use Manual Address**	Select the check box to set the IP address manually.
		Manual Address	Sets the IP address. To specify an IPv6 address, enter the address and then "64" after a slash (/). For details, consult your system administrator.
		Manual Gateway Address	Sets the gateway address.
DNS	**DNS Domain Name**	Specifies the domain name of the domain name server. Up to 255 alphanumeric characters, periods, and hyphens can be used. If you need to specify more than one domain name, separate them using a comma or semicolon.	
	IPv4	**Get DNS Server Address from DHCP**	Select the check box to get the DNS server address automatically from the DHCP server.
		Manual DNS Server Address	Sets the DNS server address.
	IPv6	**Get DNS Server Address from DHCPv6-lite**	Select the check box to get the DNS server address automatically from the DHCPv6-lite server.
		Manual DNS Server Address	Sets the DNS server address.
	Priority to IPv6 DNS Name Resolution	Select the check box to enable the DNS Name Resolution feature.	
LPD	**Connection Time-Out**	Sets the connection timeout period from 1 to 1000 seconds.	
	IP Filter (IPv4)	To set the IP Filter settings, click **IP Filter** (IPv4). The **IP Filter** (IPv4) page is displayed.	
Port9100	**Port Number**	Sets the port number from 9000 to 9999.	
	Connection Time-Out	Sets the connection timeout period between 1 and 1000 seconds.	
	IP Filter (IPv4)	To set the IP Filter settings, click **IP Filter** (IPv4). The **IP Filter** (IPv4) page is displayed.	
WSD*[1]	**Port Number**	Sets the port number to 80 or from 8000 to 9999.	
	Receive Time-Out	Sets the receive timeout period from 1 to 65535 seconds.	
	Notification Time-Out	Sets the notification timeout period from 1 to 60 seconds.	
	Maximum Number of TTL	Sets the maximum number of TTL from 1 to 10.	
	Maximum Number of Notification	Sets the maximum number of notifications from 10 to 20.	
HTTP	**Port Number**	Sets the port number to 80 or from 8000 to 9999.	
	Simultaneous Connections	Displays the maximum number of connections received simultaneously by the client.	
	Connection Time-Out	Sets the connection timeout period from 1 to 255 seconds.	
IP Filter (IPv4)*[2]	**Address**	Sets the address in the address field. Enter a numeric value between 0 and 255 in each field of "aaa.bbb.ccc.ddd." However, 127 and 224 to 254 cannot be used to "aaa."	
	Address Mask	Sets the Subnet Mask in the Mask field. Enter a numeric value between 0 and 255 in each field.	
		Reject	Rejects printing from specified network address.

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	Active Mode	**Permit**	Permits printing from specified network address.
		Disabled	Disables the IP Filter feature for the specified IP address.
*1 An optional network protocol adapter is required to display the item. *2 This item is only available for LPD or Port9100.			

To configure the IP Filter feature, enter an IP address to be filtered in the Address field and the Subnet Mask in the Address Mask field. Enter a numeric value between 0 and 255 in each field. "*" is appended to the current value.

Setup Procedure

You can set up to a maximum of five items and the first item takes priority. Enter the shortest address first before proceeding to the next longer address when setting multiple filters.

The following section explains how the **IP Filter (IPv4)** operates.

1. IP Filter Procedure
    a. Enabling Printing From a Specified User

The following describes the procedure to enable printing only from the "192.168.100.10" IP address.

Procedures:

i. Click the first column of **Access List** row **1**.

ii. Enter "192.168.100.10" in the **Address** field and "255.255.255.255" in the **Address Mask** field.

iii. Select **Permit**.

iv. Click **Apply New Settings**.

b. Disabling Printing From a Specified User

The following describes the procedure to disable printing only from the "192.168.100.10" IP address.

Procedures:

i. Click the first column of **Access List** row **1**.

ii. Enter "192.168.100.10" in the **Address** field and "255.255.255.255" in the **Address Mask** field.

iii. Select **Reject**.

iv. Click the first column of **Access List** row **2**.

v. Enter "0.0.0.0" in the **Address** field and "0.0.0.0" in the **Address Mask** field.

vi. Select **Permit**.

vii. Click **Apply New Settings**.

c. Enabling and Disabling Printing from Network Addresses

You can enable printing from the "192.168" network address and disable printing from the "192.168.200" network address. However, the example below describes how to enable printing from the "192.168.200.10" IP address.

Procedures:

i. Click the first column of the **Access List** row **1**.

ii. Enter "192.168.200.10" in the **Address** field and "255.255.255.255" in the **Address Mask** field.

iii. Select **Permit**.

iv. Click the first column of the **Access List** row **2**.

v. Enter "192.168.200.0" in the **Address** field and "255.255.255.0" in the **Address Mask** field.

vi. Select **Reject**.

vii. Click the first column of the **Access List** row **3**.

viii. Enter "192.168.0.0" in the **Address** field and "255.255.0.0" in the **Address Mask** field.

ix. Select **Permit**.

x. Click **Apply New Settings**.

NetWare

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Purpose:

To configure detailed settings for NetWare.

Values:

NetWare	**Device Name**[*1]	Specifies the printer name up to 47 alphanumeric characters. For PServer Mode, set the Print Server Name (Print Server Object Name). The original setting remains valid if no input is made.
	Active Mode	Displays the current mode for Active Mode.
	Tree Name[*1]	Specifies the tree name up to 32 alphanumeric characters. Configure this item only when **Active Mode** is **Directory: PServer Mode**.
	Context Name	Specifies the context name of the Print Server Object up to 255 alphanumeric characters. Configure this item only when **Active Mode** is **Directory: PServer Mode**.
	Polling Interval	Sets the time interval from when print data enters the print queue until printing starts. The setting range is from 1 to 1000 seconds. The original setting remains valid if no input is made. Configure this item only when **Active Mode** is **Bindery: PServer Mode** or **Directory: PServer Mode**.
	Password	Sets the print server password up to 32 alphanumeric characters. Configure this item only when **Active Mode** is **Bindery: PServer Mode** or **Directory: PServer Mode**.
	Re-enter Password	Enter the password again.
	Status Information	Displays the status of NetWare.
SLP	**Active Discovery**	Select the check box to enable **Active Discovery**.
[*1] The following are illegal characters: semicolon (;), colon (:), asterisk (*), question mark (?), period (.), comma (,), yen mark (¥), back slash (\), double quotation ("), comparison symbols (< >), brackets ([ ]), operation symbols (+, =, or ~), pipe (|), slash (/), and space ( ).		

NOTE: The settings in the **NetWare** page will be valid only when NetWare or the printer is rebooted. Click the **Apply new settings** button to apply new settings.

NOTE: An optional network protocol adapter is required to display the **NetWare** page.

E-Mail Alert

Purpose:

To configure detailed settings for E-Mail Alert. This page can also be displayed by clicking **E-Mail Alert** in the Left Frame.

Values:

E-Mail Server Settings	**Primary SMTP Gateway**	Sets the primary SMTP gateway.	
	SMTP Port Number	Specifies the SMTP port number. This must be 25, 587 or between 5000 and 65535.	
	E-Mail Send Authentication	Specifies the authentication method for outgoing e-mail.	
	SMTP Login User	Specifies the SMTP login user. Up to 63 alphanumeric characters, periods, hyphens, under bars, and at symbols (@) can be used. If specifying more than one address, separate them using commas.	
	SMTP Login Password	Specifies the SMTP account password using up to 31 alphanumeric characters.	
	Re-enter SMTP Login Password	Enter the SMTP account password again to confirm it.	
	POP3 Server Address[*1]	Specifies the POP3 server address in IP address format of "aaa.bbb.ccc.ddd" or as a DNS host name using up to 63 characters.	
	POP3 Port Number[*1]	Specifies the POP3 server port number. This must be 110 or between 5000 and 65535.	
	POP User Name[*1]	Specifies the POP3 account user name. Up to 63 alphanumeric characters, periods, hyphens, under bars, and at symbols (@) can be used. If specifying more than one address, separate them using commas.	
	POP User Password[*1]	Specifies the POP3 account password using up to 31 alphanumeric characters.	
	Re-enter POP User Password[*1]	Enter the POP3 account password again to confirm it.	
	Reply Address	Designates the reply e-mail address sent with each E-mail Alert.	
	SMTP Server Connection	Displays the status of the SMTP server connection.	
E-Mail Alert Settings	**E-Mail List 1**	Sets acceptable e-mail addresses for the E-Mail Alert feature using up to 255 alphanumeric characters.	
	Select Alerts for List 1	**Supplies Alerts**	Select the check box to receive an E-Mail Alert for consumables.
		Paper Handling Alerts	Select the check box to receive an E-Mail Alert for paper handling.
		Service Call	Select the check box to receive an E-Mail Alert for Service Calls.
	E-Mail List 2	Sets acceptable e-mail addresses for the E-Mail Alert feature using up to 255 alphanumeric characters.	
	Select Alerts for List 2	**Supplies Alerts**	Select the check box to receive an E-Mail Alert for consumables.
		Paper Handling Alerts	Select the check box to receive an E-Mail Alert for paper handling.
		Service Call	Select the check box to receive an E-Mail Alert for Service Calls.

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*1 Available when **POP before SMTP** for **E-Mail Send Authentication** is selected.

SNMP

Purpose:

To configure the detailed settings of SNMP.

Values:

Enable SNMP v1/v2c Protocol	Select the check box to enable the SNMP v1/v2c protocol.
Edit SNMP v1/v2c Properties	Click to display **SNMP v1/v2c** page and to edit the setting of SNMP v1/v2c protocol from the page.
Enable SNMP v3 Protocol	Select the check box to enable the SNMP v3 protocol.
Edit SNMP v3 Properties	Click to display **SNMP v3** page and to edit the setting of SNMP v3 protocol from the page. Without SSL communication is enabled, you cannot click this item.

NOTE: An optional network protocol adapter is required to display the SNMP page.

SNMP v1/v2c

Purpose:

To edit the detailed settings of SNMP v1/v2c protocol.

To enter this page, click **Edit SNMP v1/v2c Properties** in the **SNMP** page.

Values:

Community Name (Read only)*1	Specifies the community name to access (read only) data using up to 31 alphanumeric characters. The original setting will remain valid if no input is made. Characters entered for community name in the previous settings will not be displayed on the screen. The default Read Community is public.
Re-enter Community Name (Read only)*1	Enter the community name to access (read only) data again to confirm it.
Community Name (Read/Write)*1	Specifies the community name to access (read and write) data using up to 31 alphanumeric characters. The original setting will remain valid if no input is made. Characters entered for community name in the previous settings will not be displayed on the screen. The default Read/Write Community is private.
Re-enter Community Name (Read/Write)*1	Enter the community name to access (read and write) data again to confirm it.
Community Name (Trap)*1	Specifies the community name used for trap up to 31 alphanumeric characters. The original settings will remain valid if no input is made. Characters entered for Community Name (Trap) in the previous settings will not be displayed on the screen. The default Trap Community is " " (NULL).
Re-enter Community Name (Trap)*1	Enter the community name used for trap again to confirm it.
Trap Notification 1-4	Select the check boxes to notify trap occurrence. In this case, specify the IP address and IP socket in the following format: - IPv4 Specify the IP address and IP socket in the nnn.nnn.nnn.nnn:mmmmm format. Each section of "nnn" is a variable value between 0 and 255. Note that values 127 and 224-254 are not valid for the first three-digits only. IP socket mmmmm is a variable value between 0 and 65535. - IPv6 Specify the IP address and IP socket in the xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:mmmmm format. Each section of "xxxx" is a hexadecimal variable value between 0 and ffff. IP socket mmmmm is a variable value between 0 and 65535.
Authenticate Error Trap	Select the check box to notify Authenticate Error Trap.
*1 The default value of each items can be changed by using Dell Printer Configuration Web Tool.	

SNMP v3

Purpose:

To edit the detailed settings of SNMP v3 protocol.

To enter this page, click **Edit SNMP v3 Properties** in the **SNMP** page.

Values:

	Account Enabled	Select the check box to enable the administrator account.
	User Name	Enter the user name of the administrator account.

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Administrator Account	**Authentication Password**	Specifies the authentication password of the administrator account using 8 to 32 alphanumeric characters.
	Re-enter Authentication Password	Enter the authentication password of the administrator account again to confirm it.
	Privacy Password	Specifies the privacy password of the administrator account using 8 to 32 alphanumeric characters.
	Re-enter Privacy Password	Enter the privacy password of the administrator account again to confirm it.
Print Drivers / Remote Client Account	**Account Enabled**	Select the check box to enable the print drivers and remote client account.
	Reset to default Password	Click to reset the password for the print drivers and remote client account to default.

Other Features

The **Other Features** tab includes **Set Password**, **SSL/TLS**, **IPsec**, **802.1x**, and **Reset Print Server** pages.

Set Password

Purpose:

To set or change the password that is required to access the printer's setup parameters from the **Dell Printer Configuration Web Tool**.

Set the password of the operator panel from **Panel Lock** in the **Printer Settings**. This page can also be displayed by clicking **Set Password** in the Left Frame.

NOTE: If you forgot your password, initialize the non-volatile memory (NVM) to restore the password to the default (NULL). See "Reset Print Server".

Values:

Administrator Password	Sets the password using up to 10 alphanumeric characters. The password will appear as asterisks (*) in the field when it is entered.
Re-enter Administrator Password	Enter the password again to confirm.

SSL/TLS

Purpose:

To specify the settings for the SSL encryption communication to the printer.

NOTE: This item is only displayed when the optional network protocol adapter is installed.

Values:

HTTPS	Select the check box to enable the HTTPS, and access is established using SSL communication. Without setting **Generate Self-Signed Certificate**, you cannot select this check box.	
Port Number	Specifies the port number, which is not identical with that of HTTP for TCP/IP. This must be 443 or between 8000 and 9999.	
Generate Self-Signed Certificate	Click to display **Generate Self-Signed Certificate** page and to create a security certification from the page.	
	Size of Public Key	Select the size of public key.
	Issuer	Display the issuer of SSL self-signed certificate.
	Generate Signed Certificate	Click to generate the SSL self-signed certificate.
Manage Certificate	Click to display **Manage Certificate** page and to manage a security certification from the page.	
	Manage Certificate	Display the SSL certificate information.
	Delete	Delete the SSL certificate.
	Delete Certificate and Restart Printer	Delete the SSL certificate and restart the printer.

IPsec

Purpose:

To specify the Security Architecture settings for Internet Protocol (IPsec) for encrypted communication to the printer.

NOTE: This item is only displayed when the optional network protocol adapter is installed.

Values:

Protocol	Select the check box to enable the protocol.

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IKE	Use a pre shared key for IKE authentication.
Pre-Shared Key	Specifies a shared key.
Re-enter Pre-Shared Key	Enter the shared key again to confirm it.
IKE SA Lifetime	Sets the lifetime for IKE SA from 5 to 28800 minutes.
IPsec SA Lifetime	Sets the lifetime for IPsec SA from 5 to 2880 minutes.
DH Group	Selects the DH group.
PFS	Selects the check box to enable the PFS setting.
Remote peers IPv4 address	Specifies the IP address to connect to.
Remote peers IPv6 address	Specifies the IP address to connect to.
Non IPsec communication policy	Selects whether or not to communicate with a device which does not support IPsec.

NOTE: If IPsec is enabled with incorrect settings, you must disable it using the **IPsec** menu on the operator panel.

802.1x

Purpose:

To specify the settings for IEEE 802.1x authentication for encrypted communication to the printer.

NOTE: This item is only displayed when the optional network protocol adapter is installed, and also when the optional wireless printer adapter is not installed.

Values:

Enable IEEE 802.1x	Select the check box to enable IEEE 802.1x authentication.	
Authentication Method	**EAP-MD5**	Select the authentication method to use for IEEE 802.1x authentication.
	EAP-MS-CHAPv2	
	PEAP/MS-CHAPv2	
Login Name: (Device Name)	Specifies the login name (device name) for IEEE 802.1x authentication using up to 128 alphanumeric characters.	
Password	Specifies the login password for IEEE 802.1x authentication using up to 128 alphanumeric characters.	
Re-enter Password	Enter the login password again to confirm it.	

Reset Print Server

Purpose:

To initialize NVRAM (non-volatile RAM) for the network feature and reboot the printer. You can also initialize the printer's NVRAM from **Reset Defaults** in the **Printer Settings** menu.

Values:

Initialize NIC NVRAM Memory and restart printer.	Click the **Start** button to initialize NVRAM. Network settings will revert to the factory default settings and reboot the network capability.
Restart Printer	Click the **Start** button to reboot the printer.

Copy Printer Settings

The **Copy Printer Settings** menu includes the **Copy Printer Settings** and **Copy Printer Settings Report** pages.

Copy Printer Settings

Purpose:

To copy the printer settings to one or more of the same model of the printer.

To copy the settings to another printer, specify the IP address and password of the printer to which the settings are copied in the **IP Address** text box and **Password** text box. Then, click the **Copy the settings to the Host in the above list.** button. Copying the settings is complete. The connection time-out period is 60 seconds. After that, you can check whether the settings were copied to this page. And you need to click the **Copy the settings to the Host in the above list and reboot the machine** button of the **Dell Printer Configuration Web Tool** in the destination printer to verify if the settings were actually copied or not.

If the settings can be copied but printer configuration is different, the settings of only the same items are copied. Printer settings are simultaneously copied to printers of up to 10 IP addresses.

Copy Printer Settings Report

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Purpose:

To verify the histories of copying.

NOTE: The history is cleared by turning off the printer.

Print Volume

The **Print Volume** menu includes the **Print Volume** and **Dell ColorTrack** pages.

Print Volume

Purpose:

To verify the number of printed pages. This page can also be displayed by clicking **Print Volume** in the Left Frame.

Values:

Printer Page Count	Displays the total number of pages printed since the printer was shipped from the factory.
Paper Used	Displays the number of pages printed for each paper size.

Dell ColorTrack

Purpose:

To specify which users have access to color printing and to limit print volume per user.

Values:

Print User Limitation	Select the check box to restrict users from using the printer.
Permit printing without specifying user	Select the check box to use the printer without user limitations.
User Registration	Displayed when **Print User Limitation** is enabled. To register a user, click **Edit User Registration** to open the **Edit Print User Registration** page, and then specify **User Registration No.** and click **Create** to open the **Print User Settings** page.

Edit Print User Registration

Purpose:

To edit the print meter setting for each user.

Values:

User No. List to:	Selecting each button displays a list of print meter settings for the group of user registration numbers indicated on the button.
No.: User Name	Displays a user registration number and name of the user registered under that number. User registration numbers without an entry show **(Not in Use)** in the **User Name** column.
MonoCount (Limit)	Displays the total number of monochrome pages printed to date and the maximum number of monochrome pages the user is permitted to print.
ColorCount (Limit)	Displays the total number of color pages printed to date and the maximum number of color pages the user is permitted to print.
Delete	Deletes the entry for the selected user registration number.
Confirm / Change	Displays a dialog box where you can edit the entry for the selected user registration number.
Create	Displays a dialog box where you can create a new entry under the selected user registration number.

Print User Settings (Confirm / Change, Create)

Purpose:

To view or edit the user entries in the **Edit Print User Registration** page, or create a new entry. The following items are in the dialog box that appears when you click the **Confirm / Change** or **Create** button on the **Edit Print User Registration** page.

Values:

User Registration No.	Displays the selected user registration number.
User Name	Allows you to view or edit the name of the user registered under the selected user registration number, or enter a user name for the new entry.

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Password	Displays the password associated with the user name in asterisks, or allows you to enter a password for the new entry.
Re-enter Password	Enter the password again to confirm.
Color Mode Limitation	Specifies whether to permit only monochrome printing or both color and monochrome printing.
Upper Limit for Color Print	Sets the maximum number of color pages the user is permitted to print.
Cumulative Color Page Count	Displays the total number of color pages printed to date.
Upper Limit for Monochrome Print	Sets the maximum number of monochrome pages the user is permitted to print.
Cumulative Monochrome Page Count	Displays the total number of monochrome pages printed to date.
Apply New Settings	Press this button to apply new settings.
Restore Settings	Press this button to restore the previous settings.
Back	Press this button to return to the **Edit Print User Registration** page.

Print User Settings (Delete User)

Purpose:

To delete the user entries registered on the **Edit Print User Registration** page. The following items are in the dialog box that appears when you click the **Delete User** button on the **Edit Print User Registration** page.

Values:

User Registration No.	Displays the selected user registration number.
User Name	Displays the name of the user registered under the user registration number.
Apply New Settings	Press this button to apply the new settings.
Back	Press this button to return to the **Edit Print User Registration** page.

Tray Settings

Use the **Tray Settings** menu to set the paper size and type of paper loaded in the trays.

Values:

Tray 1 Paper Type	Sets the type of paper loaded in the standard 250-sheet tray.
Tray 1 Paper Size	Sets the size of paper loaded in the standard 250-sheet tray.
Tray 1 Custom Size - Y	Sets the length of custom size paper loaded in the standard 250-sheet tray.
Tray 1 Custom Size - X	Sets the width of custom size paper loaded in the standard 250-sheet tray.
Tray 2 Paper Type	Sets the type of paper loaded in the optional 250-sheet feeder.
Tray 2 Paper Size	Sets the size of paper loaded in the optional 250-sheet feeder.
Display Popup	Sets whether to display a popup message that prompts to set the paper size and type when paper is loaded in the standard 250-sheet tray and optional 250-sheet feeder.

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Installing Optional Modules

- Installing the Optional 250-Sheet Feeder
- Installing a Duplexer
- Installing a Memory
- Installing the Network Protocol Adapter
- Installing and Configuring the Wireless Printer Adapter

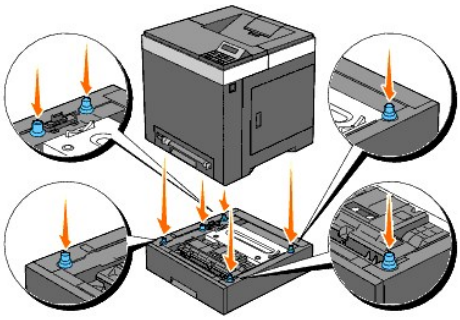
You can make the printer more functional by installing the options. This chapter describes how to install the printer's options such as the duplexer and optional 250-sheet feeder.

Installing the Optional 250-Sheet Feeder

⚠ **CAUTION: If you are adding an optional 250-sheet feeder after setting up the printer, be sure to turn off the printer, unplug the power cable, and disconnect all cables from the back of the printer before completing these tasks.**

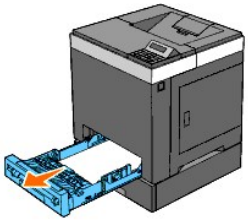
1. Turn off the printer and unplug the power cable. Then, disconnect all cables from the back of the printer.
2. Remove all packaging from the optional 250-sheet feeder.
3. Place the optional 250-sheet feeder in the location that the printer is located.
4. Lift the printer and align the five guide pins of the optional 250-sheet feeder with the holes at the bottom of the printer. Gently lower the printer onto the optional 250-sheet feeder.

⚠ **CAUTION: To lift the printer safely, lift it with two people facing the front and back. Never try to lift the printer while facing its right and left sides.**



⚠ **CAUTION: Be careful not to pinch your fingers when lowering the printer onto the optional 250-sheet feeder.**

5. Pull the standard 250-sheet tray out of the printer about 200 mm. Hold the standard 250-sheet tray with both hands, and remove it from the printer.



6. Attach the optional 250-sheet feeder and the printer by tightening the two screws provided with the feeder with a coin or similar object.

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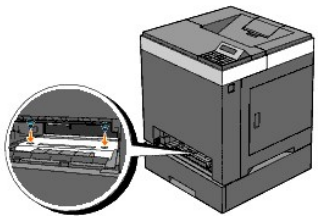
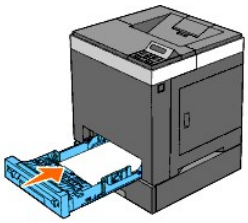


NOTE: The screw hole is located in 216 mm recess from the front of the printer.

7. Insert the standard 250-sheet tray into the printer, and push until it stops.



8. Reconnect all cables including the power cable into the back of the printer and turn on the printer.

NOTE: The printer will automatically detect the attached tray but will not detect the paper type.

9. Print a printer settings page to verify the optional 250-sheet feeder is installed correctly.

When Using the Operator Panel

a. Press **Menu** button.

b. Press ⌄ button until Report/List appears, and then press ✓ **(Set)** button.

c. Printer Setting is displayed. Press ✓ **(Set)** button.
The printer settings page is printed.

d. Verify **Tray 2** is listed in the printer settings under **Printer Options**.

If the feeder is not listed, turn off the printer, unplug the power cable, and reinstall the optional 250-sheet feeder.

When Using the Tool Box

a. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

The **Select Printer** dialog box opens.

b. Click the name of this printer listed in **Printer Name**, and then click **OK**.

The **Tool Box** opens.

c. Click the **Printer Settings Report** tab.

d. Select **Reports** from the list at the left side of the page.

The **Reports** page is displayed.

e. Click the **Printer Settings** button.

The printer settings page is printed.

f. Verify **Tray 2** is listed in the printer settings under **Printer Options**.

If the feeder is not listed, turn off the printer, unplug the power cable, and reinstall the optional 250-sheet feeder.

10. After loading paper in the installed tray, specify the paper type from the printer operator panel.

a. Press **Menu** button.

b. Press ⌄ button until Tray Settings appears, and then press ✓ **(Set)** button.

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c. Press ⌄ button until the installed tray appears, and then press ✓ **(Set)** button.

d. Press ⌄ button until Paper Type appears, and then press ✓ **(Set)** button.

e. Press ⌄ button until the paper type for the installed tray appears, and then press ✓ **(Set)** button.

f. Confirm that the selected paper type is marked with an asterisk(*), and then press **Menu** button.

11. If you installed the optional 250-sheet feeder after installing the printer driver, update your driver by following the instructions for each operating system. If the printer is on a network, update the driver for each client.

For Windows Vista®/Vista x64

a. Click **Start**→ **Control Panel**→ **Hardware and Sound**→ **Printers**.

b. Right-click the printer icon of the Dell™ 2130cn Color Laser Printer and select **Properties**.

c. Click the **Options** tab, and then select **Get Information from Printer**.

d. Click **Apply**, and then click **OK**.

e. Close the **Printers** dialog box.

For Windows Server® 2008/Server 2008 x64

a. Click **Start**→ **Control Panel**→ **Printers**.

b. Right-click the printer icon of the Dell 2130cn Color Laser Printer and select **Properties**.

c. Click the **Options** tab, and then select **Get Information from Printer**.

d. Click **Apply**, and then click **OK**.

e. Close the **Printers** dialog box.

For Windows® XP/XP x64/Server 2003/Server 2003 x64

a. Click **start**→ **Printers and Faxes**.

b. Right-click the printer icon of the Dell 2130cn Color Laser Printer and select **Properties**.

c. Click the **Options** tab, and then select **Get Information from Printer**.

d. Click **Apply**, and then click **OK**.

e. Close the **Printers and Faxes** dialog box.

For Windows 2000

a. Click **Start**→ **Settings**→ **Printers**.

b. Right-click the printer icon of the Dell 2130cn Color Laser Printer and select **Properties**.

c. Click the **Options** tab, and then select **Get Information from Printer**.

d. Click **Apply**, and then click **OK**.

e. Close the **Printers** dialog box.

If the printer information is not updated automatically after clicking **Get Information from Printer**, follow these steps:

1. Click the **Options** tab, and then select **250 Sheet Feeder** on the **Items** list box.
2. Select **Available** for the optional 250-sheet feeder setting.
3. Click **Apply**, and then click **OK**.
4. Close the **Printers and Faxes** (or **Printers**) dialog box.

Installing a Duplexer

1. Ensure that the printer is turned off.

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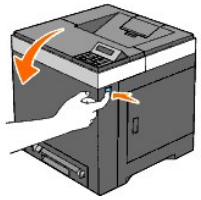
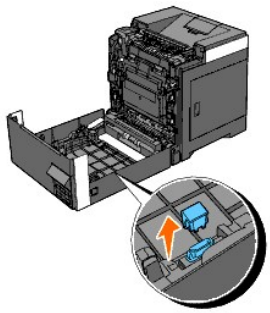
2. Remove all packaging from the duplexer.

3. Push the side button and open the front cover.



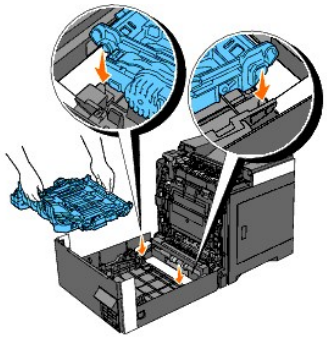
4. Remove the connector cap.



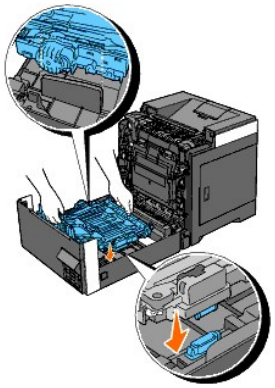
5. Install the duplexer into the inside of the front cover.

NOTE: Ensure that the duplexer is parallel to the front cover when action is being carried out.

NOTE: Align the groove on the right tip of the duplexer to the projection on the front cover. Align the arrow mark on the left tip of the duplexer to the arrow mark on the front cover.



NOTE: Align the connector on the right side of the duplexer to the connector on the front cover as shown in the illustration. The guiding rib on the left side of the front cover needs to be well aligned to the window on the left side of the duplexer.



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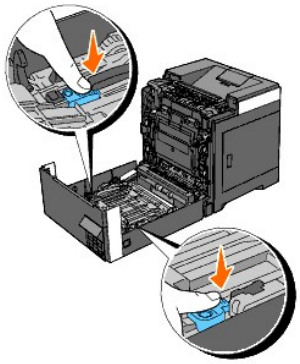
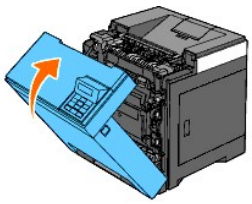
6. Fasten the duplexer by pushing firmly with your thumbs.



NOTE: Ensure that the duplexer is firmly fixed.

7. Close the front cover.



8. Turn on the printer.

9. Print a printer settings page to verify that the duplexer is installed correctly.

When Using the Operator Panel

a. Press **Menu** button.

b. Press ⌄ button until Report/List appears, and then press ✓ **(Set)** button.

c. Printer Setting is displayed. Press ✓ **(Set)** button.

The printer settings page is printed.

d. Verify **Duplexer** is listed in the printer settings under **Printer Options**.

If the duplexer is not listed, turn off the printer, unplug the power cable, and reinstall the duplexer.

When Using the Tool Box

a. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

The **Select Printer** dialog box opens.

b. Click the name of this printer listed in **Printer Name**, and then click **OK**.

The **Tool Box** opens.

c. Click the **Printer Settings Report** tab.

d. Select **Reports** from the list at the left side of the page.

The **Reports** page is displayed.

e. Click the **Printer Settings** button.

The printer settings page is printed.

f. Verify **Duplexer** is listed in the printer settings under **Printer Options**.

If the duplexer is not listed, turn off the printer, unplug the power cable, and reinstall the duplexer.

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10. If you installed the duplexer after installing the printer driver, update your driver by following the instructions for each operating system. If the printer is on a network, update the driver for each client.

For Windows Vista / Vista x64

a. Click **Start**→ **Control Panel**→ **Hardware and Sound**→ **Printers**.
b. Right-click the printer icon of the Dell 2130cn Color Laser Printer and select **Properties**.
c. Click the **Options** tab, and then select **Get Information from Printer**.
d. Click **Apply**, and then click **OK**.
e. Close the **Printers** dialog box.

For Windows Server 2008 / Server 2008 x64

a. Click **Start**→ **Control Panel**→ **Printers**.
b. Right-click the printer icon of the Dell 2130cn Color Laser Printer and select **Properties**.
c. Click the **Options** tab, and then select **Get Information from Printer**.
d. Click **Apply**, and then click **OK**.
e. Close the **Printers** dialog box.

For Windows XP / XP x64 / Windows Server 2003 / Windows Server 2003 x64

a. Click **start**→ **Printers and Faxes**.
b. Right-click the printer icon of the Dell 2130cn Color Laser Printer and select **Properties**.
c. Click the **Options** tab, and then select **Get Information from Printer**.
d. Click **Apply**, and then click **OK**.
e. Close the **Printers and Faxes** dialog box.

For Windows 2000

a. Click **Start**→ **Settings**→ **Printers**.
b. Right-click the printer icon of the Dell 2130cn Color Laser Printer and select **Properties**.
c. Click the **Options** tab, and then select **Get Information from Printer**.
d. Click **Apply**, and then click **OK**.
e. Close the **Printers** dialog box.

If the printer information is not updated automatically after clicking **Get Information from Printer**, follow these steps:

1. Click the **Options** tab, and then select **Duplexer** in the **Items** list box.
2. Select **Available** for the duplexer setting.
3. Click **Apply**, and then click **OK**.
4. Close the **Printers and Faxes** (or **Printers**) dialog box.

Installing a Memory

Your printer supports 512 MB and 1024 MB additional memory.

1. Ensure that the printer is turned off.
2. Turn the screw on the control board cover in a counter-clockwise direction and open the cover.

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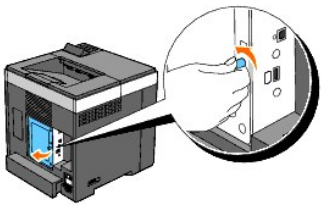
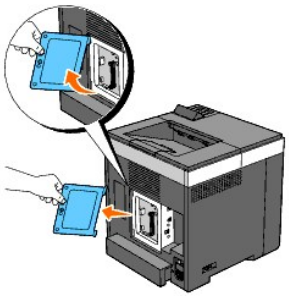
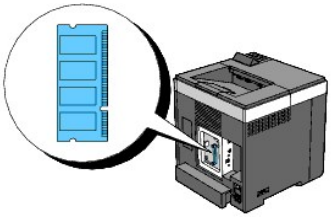


3. Remove the control board cover.

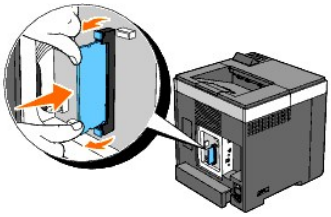
NOTE: Take off the below edge of the control board cover by turning the control board cover on hinge in the above edge. Next, remove the control board cover by pulling it from the printer.



4. With the connector of the memory toward the slot, insert the memory vertically into the slot.



5. Push the memory into the slot firmly.



NOTE: Ensure that the memory is firmly fixed in the slot and cannot be moved easily.

6. Install the control board cover.

NOTE: Insert the above hinge of the control board cover into the above slit on the printer. Next, insert the below hinge of the control board cover into the below slit on the printer.

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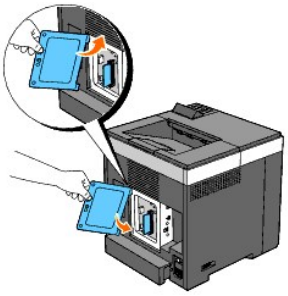

7. Close the control board cover and turn the screw clockwise.

8. Turn on the printer.
9. Print a printer settings page to verify that the memory is installed correctly.

When Using the Operator Panel

a. Press **Menu** button.

b. Press ⌄ button until Report/List appears, and then press ✓ **(Set)** button.

c. Printer Setting is displayed. Press ✓ **(Set)** button.

The printer settings page is printed.

d. Verify **Memory Capacity** listed in the printer settings under **General**.

If the memory capacity has not increased, turn off the printer, unplug the power cable, and reinstall the memory.

When Using the Tool Box

a. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

The **Select Printer** dialog box opens.

b. Click the name of this printer listed in **Printer Name**, and then click **OK**.

The **Tool Box** opens.

c. Click the **Printer Settings Report** tab.

d. Select **Reports** from the list at the left side of the page.

The **Reports** page is displayed.

e. Click the **Printer Settings** button.

The printer settings page is printed.

f. Verify **Memory Capacity** listed in the printer settings under **General**.

If the memory capacity has not increased, turn off the printer, unplug the power cable, and reinstall the memory.

10. If you installed the additional print memory after installing the printer driver, update your driver by following the instructions for the operating system you are using. If the printer is on a network, update the driver for each client.

For Windows Vista / Vista x64

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a. Click **Start**→ **Control Panel**→ **Hardware and Sound**→ **Printers**.

b. Right-click the printer icon of the Dell 2130cn Color Laser Printer and select **Properties**.

c. Click the **Options** tab, and then select **Get Information from Printer**.

d. Click **Apply**, and then click **OK**.

e. Close the **Printers** dialog box.

For Windows Server 2008/Server 2008 x64

a. Click **Start**→ **Control Panel**→ **Printers**.

b. Right-click the printer icon of the Dell 2130cn Color Laser Printer and select **Properties**.

c. Click the **Options** tab, and then select **Get Information from Printer**.

d. Click **Apply**, and then click **OK**.

e. Close the **Printers** dialog box.

For Windows XP/XP x64/Windows Server 2003/Windows Server 2003 x64

a. Click **start**→ **Printers and Faxes**.

b. Right-click the printer icon of the Dell 2130cn Color Laser Printer and select **Properties**.

c. Click the **Options** tab, and then select **Get Information from Printer**.

d. Click **Apply**, and then click **OK**.

e. Close the **Printers and Faxes** dialog box.

For Windows 2000

a. Click **Start**→ **Settings**→ **Printers**.

b. Right-click the printer icon of the Dell 2130cn Color Laser Printer and select **Properties**.

c. Click the **Options** tab, and then select **Get Information from Printer**.

d. Click **Apply**, and then click **OK**.

e. Close the **Printers** dialog box.

If the printer information is not updated automatically after clicking **Get Information from Printer**, follow these steps:

1. Click the **Options** tab, and then select **Memory Capacity** in the **Items** list box.
2. Select the total amount of the installed print memory for the memory capacity setting.
3. Click **Apply**, and then click **OK**.
4. Close the **Printers and Faxes** (or **Printers**) dialog box.

Installing the Network Protocol Adapter

The network protocol adapter allows you to use the following network protocols.

Network protocol	**Supported OSes**
802.1x(Wired)*1*2	Windows Server 2003 / Windows Server 2003 x64
NetWare(IP)	NetWare 5 / 6 / 6.5*3
SNMPv3	SNMP Manager
HTTPS	Internet Explorer 6.0 or Later/Internet Explorer 7.0 or Later/Firefox 2.0 or Later
WSD(Print)	Windows Vista/Windows Vista x64/Windows Server 2008/Windows Server 2008 x64

*1 This protocol is only available when the optional wireless printer adapter is not installed.

*2 Supports EAP-MD5, EAP-MS-CHAPv2, and PEAP/MS-CHAPv2 for the authentication method.

*3 Supports only Support Pack 1.1 or later.

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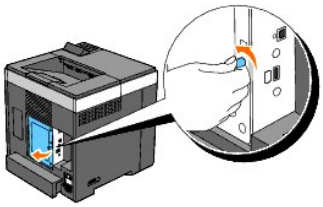
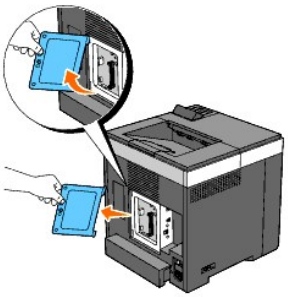
1. Ensure that the printer is turned off and all the cables are unplugged including the power cable from the rear of the printer.

2. Turn the screw on the control board cover in a counter-clockwise direction and open the cover.



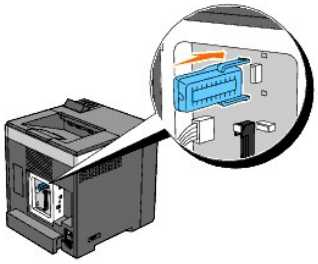
3. Remove the control board cover.

NOTE: Take off the below edge of the control board cover by turning the control board cover on hinge in the above edge. Next, remove the control board cover by pulling it from the printer.



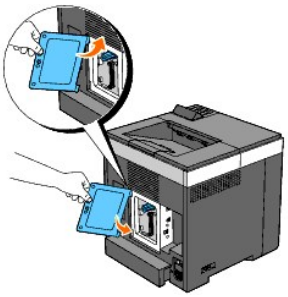
4. Insert the network protocol adapter by aligning the two rectangular slots and the circular hole and ensure that it snaps into place.

NOTE: Take note of the orientation of the network protocol adaptor. Ensure that the network protocol adapter is firmly fixed in the connector.



5. Install the control board cover.

NOTE: Insert the above hinge of the control board cover into the above slit on the printer. Next, insert the below hinge of the control board cover into the below slit on the printer.



6. Close the control board cover and turn the screw clockwise.

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7. Reconnect all cables including the power cable into the back of the printer and turn on the printer.

8. Print a printer settings page to verify that the network protocol adapter is installed correctly.

When Using the Operator Panel

a. Press **Menu** button.

b. Press ⌄ button until Report/List appears, and then press ✓ **(Set)** button.

c. Printer Setting is displayed. Press ✓ **(Set)** button.
The printer settings page is printed.

d. Verify **Network Protocol Adapter** is listed in the printer settings under **Printer Options**.

If it is not listed, turn off the printer, unplug the power cable, and reinstall the network protocol adapter.

When Using the Tool Box

a. Click **start**→ **All Programs**→ **Dell Printers**→ **Dell 2130cn Color Laser Printer**→ **Tool Box**.

The **Select Printer** dialog box opens.

b. Click the name of this printer listed in **Printer Name**, and then click **OK**.

The **Tool Box** opens.

c. Click the **Printer Settings Report** tab.

d. Select **Reports** from the list at the left side of the page.

The **Reports** page is displayed.

e. Click the **Printer Settings** button.

The printer settings page is printed.

f. Verify **Network Protocol Adapter** is listed in the printer settings under **Printer Options**.

If it is not listed, turn off the printer, unplug the power cable, and reinstall the network protocol adapter.

Installing and Configuring the Wireless Printer Adapter

The wireless printer adapter allows you to use the printer with wireless network connection.

The specifications of wireless printer adapter are described below.

Item	Specification
Connectivity Technology	Wireless
Compliant Standards	802.11b/ 802.11g
Bandwidth	2.4 GHz
Data Transfer Rate	802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11b: 11, 5.5, 2, 1 Mbps
Security	64 (40-bit key)/ 128 (104- bit key) WEP, WPA- PSK (TKIP, AES), WPA2-PSK (AES) (IEEE802.1x attestation function of WPA 1x non-corresponds)

NOTE: When the Wireless Printer Adapter is installed, you cannot use IEEE 802.1x authentication and /or the Ethernet port for a wired connection.

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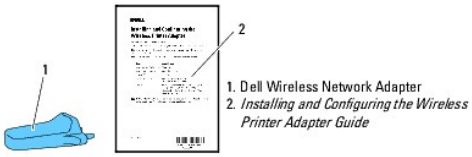
Contents of Box



1. Dell Wireless Network Adapter
2. *Installing and Configuring the Wireless Printer Adapter Guide*

NOTE: To complete wireless installation you will require the corresponding *Drivers and Utilities* CD that comes with your printer which can also be downloaded from **support.dell.com**.

NOTE: To complete wireless installation you will require a USB cable for temporary connection during configuration (sold separately).

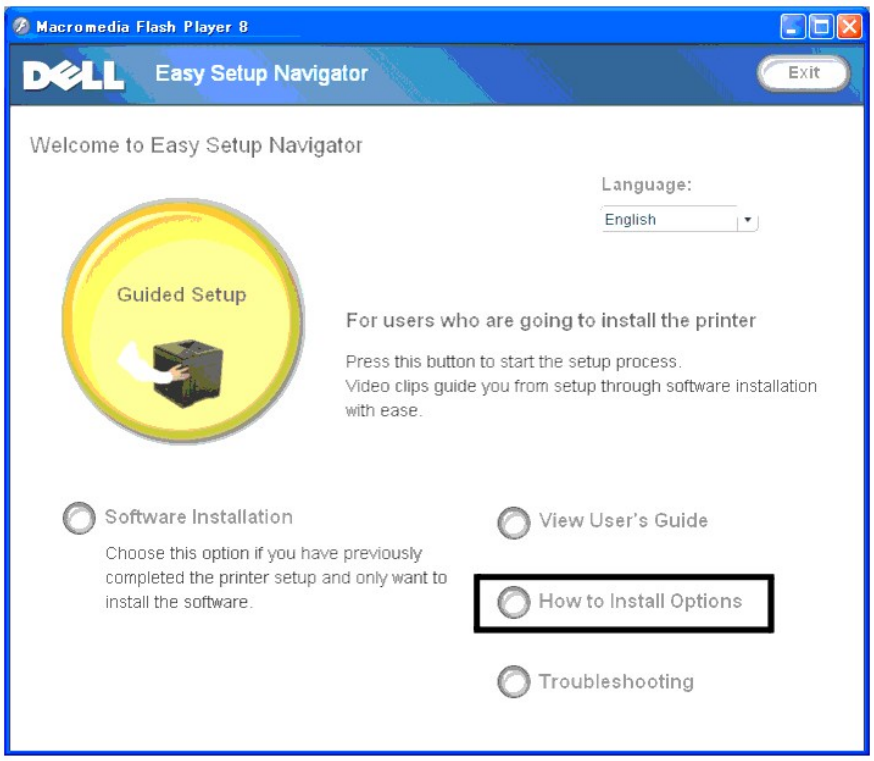
Before Installing the Wireless Printer Adapter

To install the Dell Wireless Printer Adapter, follow one of the methods;

Either

Video instructions (Recommended)

1. Insert the Drivers and Utilities CD. The setup_assist.exe file launches automatically.
2. Click the **How to Install Options** button on the **Easy Setup Navigator** window and follow on screen instructions.


Macromedia Flash Player 8
DELL
Easy Setup Navigator
Exit
Welcome to Easy Setup Navigator
Language:
English
Guided Setup
For users who are going to install the printer
Press this button to start the setup process.
Video clips guide you from setup through software installation with ease.
Software Installation
Choose this option if you have previously completed the printer setup and only want to install the software.
View User's Guide
How to Install Options
Troubleshooting

Or

Paper instructions

Refer to *Installing and Configuring the Wireless Printer Adapter Guide*.

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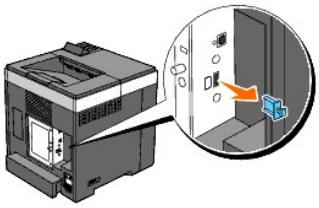
Installing the Wireless Printer Adapter

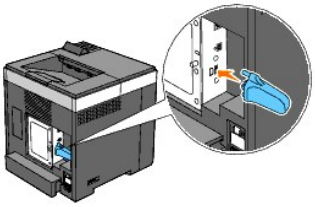
1. Ensure that the printer is turned off and unplug all cables including the power cable from the rear of the printer.

2. Use a USB cable and temporarily connect the square end to the back of your printer and the other end to your computer.

3. Remove the cap from the wireless printer adapter socket.



4. Insert the wireless printer adapter into the wireless printer adapter socket with adjusting two pins and a hook of the wireless printer adapter to the position of three holes around the wireless printer adapter socket.



NOTE: Ensure that the adapter is fully inserted and secured.

5. Reconnect the AC power cord and turn on the printer.

6. Print a Printer Settings page follow one of the two methods below.

Method 1: Using the Printer's operator panel

a. Press the **Menu** button

b. Press the ✔ button until Report/List appears, and then press the ✔ (Set) button

c. Printer Settings is displayed. Press the ✔ (Set) button

The **Printer Settings** page is printed.

Method 2: Using the printer's Tool Box

a. Click **start** → **All Programs** → **Dell Printers** → **Dell 2130cn Color Laser Printer** → **Tool Box**.

The Select Printer dialog box opens.

b. Click **Dell 2130cn Color Laser PCL 6** listed in **Printer Name**, and then click **OK**.

The **Tool Box** opens.

c. Click the **Printer Settings Report** tab.

d. Select **Reports** from the list at the left side of the page.

The **Reports** page is displayed.

e. Click the **Printer Settings** button.

The **Printer Settings** page is printed

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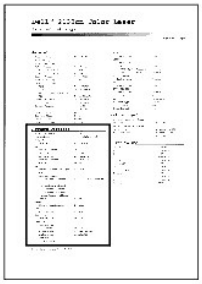
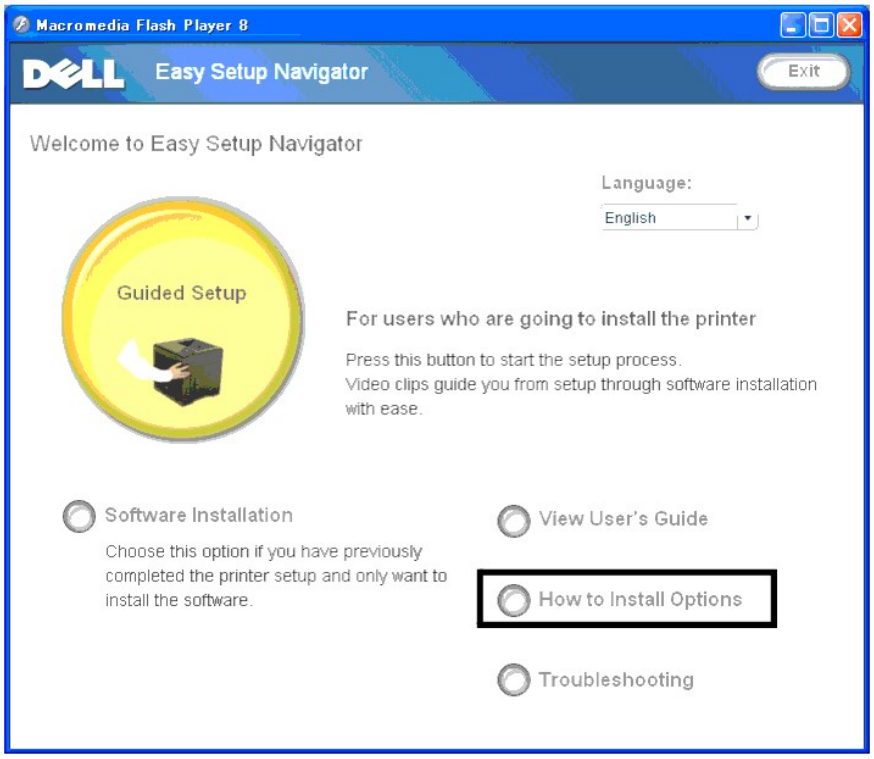
7. Verify that the **Network (Wireless)** section exists.



8. Insert the *Drivers and Utilities* CD provided with the printer. The **setup_assist.exe** file launches automatically.

9. Click the **How to Install Options** button on the **Easy Setup Navigator** window.

   The **How to Install Options** window opens.


Macromedia Flash Player 8
DELL
Easy Setup Navigator
Exit
Welcome to Easy Setup Navigator
Language:
English
Guided Setup
For users who are going to install the printer
Press this button to start the setup process.
Video clips guide you from setup through software installation with ease.
Software Installation
Choose this option if you have previously completed the printer setup and only want to install the software.
View User's Guide
How to Install Options
Troubleshooting

10. Click the **Wireless Printer Adapter** button and click **Skip Video**, to set printer's SSID.

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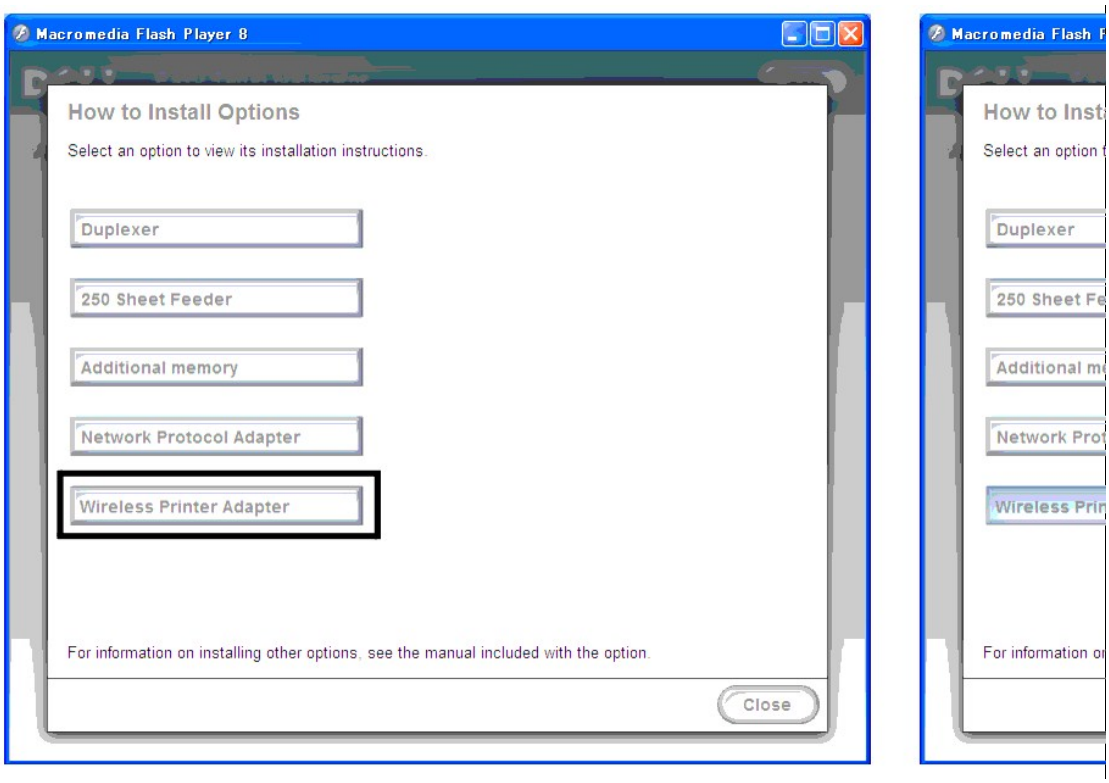
Macromedia Flash Player 8
How to Install Options
Select an option to view its installation instructions.
Duplexer
250 Sheet Feeder
Additional memory
Network Protocol Adapter
Wireless Printer Adapter
For information on installing other options, see the manual included with the option.
Close

The **Wireless Settings Tool** window opens. Follow on screen instructions.

NOTE: For more information to configuring the Wireless Printer Adapter see "Wireless Installation using Wireless Settings Tool".

Determining the Wireless Network Settings

You need to know the settings for the wireless network to set up the wireless printer. For details of the settings, contact your network administrator.

Wireless Settings	SSID	Specifies the name that identifies the wireless network. Up to 32 alphanumeric characters.
	Network Type	Specifies the network type from Ad-hoc or Infrastructure.
Security Settings	Security	Selects the security method from No security, WEP, WPA-PSK TKIP and WPA2-PSK-AES / WPA-PSK-AES.
	Transmit Key	Specifies the transmit key from the list.
	WEP Key	Specified the WEP key set used through the wireless network only when WEP is selected for Security.
	Pass Phrase	Specifies the pass phrase of alphanumeric characters from 8 to 63 bytes long only when WPA-PSK is selected for Encryption.

Wireless Installation using Wireless Settings Tool

NOTE: The optional wireless printer adapter must be installed on the printer.

Scene 1. Install a printer to the already-operating wireless network (When wireless setting is already set to your computer)

1. Connect the printer to your computer using USB cable.
2. Insert the *Drivers and Utilities* CD into your computer to start **Easy Setup Navigator**.

   NOTE: If the CD does not automatically launch, click **start**→ **All Programs** (for Windows Vista only)→ **Accessories** (for Windows Vista only)→ **Run**, and then type D:\setup_assist.exe (where D is the drive letter of your CD), and then click **OK**.

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3. Press **How to Install Options** button.
4. Press **Wireless Printer Adapter**.
5. Press **Skip video** to launch the wireless settings tool.
6. In the list on the **Select Printer** screen, select the target printer that you are making wireless setting for, and then click **Next**.
7. On the **Enter Wireless Network Settings** screen, set each wireless setting item, and then click **Next**.
8. On the **Select IP Mode** screen, select the IP mode you want to setup, and then click **Next**.

   When IPv4 Only is selected:

   On the **Enter IPv4 Address Settings** screen, set each setting item, and then click **Send** to send the wireless settings to the printer.

   When IPv6 Only is selected:

   On the **Enter IPv6 Address Settings** screen, set each setting item, and then click **Send** to send the wireless settings to the printer.

   When Dual Stack (both IPv4 and IPv6) is selected:

   a. On the **Enter IPv4 Address Settings** screen, set each setting item, and then click **Next**.
   b. On the **Enter IPv6 Address Settings** screen, set each setting item, and then click **Send** to send the wireless settings to the printer.

9. On the **Complete Wireless Settings** screen, click **Finish** to complete the wireless setting and close the wireless settings tool.

Scene 2. Construct new wireless network environment for both computer and printer (When wireless setting needs to be set to your computer)

1. Connect the printer to your computer using USB cable.
2. Insert the *Drivers and Utilities* CD into your computer to start **Easy Setup Navigator**.

   NOTE: If the CD does not automatically launch, click **start**→ **All Programs** (for Windows Vista only)→ **Accessories** (for Windows Vista only)→ **Run**, and then type D:\setup_assist.exe (where D is the drive letter of your CD), and then click **OK**.

3. Press **How to Install Options** button.
4. Press **Wireless Printer Adapter**.
5. Press **Skip video** to launch the wireless settings tool.
6. In the list on the **Select Printer** screen, select the target printer that you are making wireless setting for, and then click **Next**.
7. On the **Enter Wireless Network Settings** screen, set each wireless setting item, and then click **Next**.
8. On the **Select IP Mode** screen, select the IP mode you want to setup, and then click **Next**.

   When IPv4 Only is selected:

   On the **Enter IPv4 Address Settings** screen, set each setting item, and then click **Send** to send the wireless settings to the printer.

   When IPv6 Only is selected:

   On the **Enter IPv6 Address Settings** screen, set each setting item, and then click **Send** to send the wireless settings to the printer.

   When Dual Stack (both IPv4 and IPv6) is selected:

   a. On the **Enter IPv4 Address Settings** screen, set each setting item, and then click **Next**.
   b. On the **Enter IPv6 Address Settings** screen, set each setting item, and then click **Send** to send the wireless settings to the printer.

9. On the **Complete Wireless Settings** screen, click **Finish** to complete the wireless setting and close the wireless settings tool.
10. Create the wireless setting sent to the printer on your computer following the steps below.

    NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

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For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.
b. Right-click **Wireless Network Connection** and select **Properties**.
c. Select the **Wireless Networks** tab.
d. Ensure the check box for **Use Windows to configure my wireless network settings** is checked.
e. Click **Advanced**.
f. Do either of the following:

When wireless ad-hoc mode is set to the printer:

Select **Computer to Computer (ad hoc) networks only** and close the **Advanced** dialog box.

When wireless infrastructure mode is set to the printer:

Select **Access point (Infrastructure) networks only** and close the **Advanced** dialog box.

g. Click **Add** to display Wireless network properties.
h. Enter the setting that you send to the printer and click **OK**.
i. Click **Move up** to move the setting to the top of the list.
j. Click **OK** to close the **Property** dialog box.

For Windows Vista:

a. Open **Control Panel**.
b. Select **Network and Internet**.
c. Select **Network and Sharing Center**.
d. Select **Connect to a network**.
e. Select the setting you send to the printer from the network items listed in **Connect to a network**.
f. Select **Connect Anyway** in the warning dialog box indication indicating you are entering an unsecured area.
g. Click **Close** in the dialog box after confirming the connection is a success.

For Windows Server 2008:

a. Open **Control Panel**.
b. Select **Network and Sharing Center**.
c. Select **Connect to a network**.
d. Select the setting you send to the printer from the network items listed in **Connect to a network**.
e. Select **Connect Anyway** in the warning dialog box indication indicating you are entering an unsecured area.
f. Click **Close** in the dialog box after confirming the connection is a success.

Wireless Installation using Dell Printer Configuration Web Tool

Scene 1. Install a printer to the already-operating wireless network (When wireless setting is already set to your computer)

For DHCP network:

1. Create wireless setting of your computer following the steps below.

NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.
b. Right-click **Wireless Network Connection** and select **Properties**.
c. Select the **Wireless Networks** tab.
d. Ensure the check box for **Use Windows to configure my wireless network settings** is checked.

NOTE: Be sure to write down the current wireless computer settings in steps d and f so that you can restore them later.

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e. Click the **Advanced** button.

f. Select **Computer to Computer (ad hoc) networks only** and close the **Advanced** dialog box.

g. Click the **Add** button to display **Wireless network properties**.

h. Under the **Association** tab, enter the following information and click **OK**.

Network name (SSID): dell_device

Network Authentication: Open

Data encryption: Disabled

Ad hoc network: checked

i. Click the **Move up** button to move the newly added SSID to the top of the list.

j. Click **OK** to close the **Property** dialog box.

NOTE: When your operating system is earlier than Windows 2000, create settings according to the manual of the wireless settings tool provided by your wireless device manufacturer.

For Windows Vista:

a. Open **Control Panel**.

b. Select **Network and Internet**.

c. Select **Network and Sharing Center**.

d. Select **Connect to a network**.

e. Select **dell_device** from the network items listed in **Connect to a network**.

f. Select **Connect Anyway** in the warning dialog box indicating you are entering an unsecured area.

g. Click **Close** in the dialog box after confirming the connection is a success.

For Windows Server 2008:

a. Open **Control Panel**.

b. Select **Network and Sharing Center**.

c. Select **Connect to a network**.

d. Select **dell_device** from the network items listed in **Connect to a network**.

e. Select **Connect Anyway** in the warning dialog box indicating you are entering an unsecured area.

f. Click **Close** in the dialog box after confirming the connection is a success.

2. Check the IP address assigned by AutoIP on the printer.

e.g.: 168.254.1.1

3. Check that the IP address on your computer is assigned by DHCP.

4. Open Dell Printer Configuration Web Tool using WEB browser.

e.g.: http://168.254.1.1/

5. Change the wireless setting of the printer on Dell Printer Configuration Web Tool.

6. Reboot the printer.

7. Restore the wireless setting on your computer.

NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.

b. Right-click **Wireless Network Connection** and select **Properties**.

c. Select **Wireless Networks** tab.

d. Click **Advanced**.

e. Do either of the following:

When wireless ad-hoc mode is set to the printer:

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Select **Computer to Computer (ad hoc) networks only** and close the **Advanced** dialog box.

When wireless infrastructure mode is set to the printer:

Select **Access point (Infrastructure) networks only** and close the **Advanced** dialog box.

f. Select the setting that you send to the printer in the list in **Preferred Network** group.

g. Click **Move up** to move the setting to the top of the list.

h. Click **OK** to close the **Property** dialog box.

NOTE: When your operating system is earlier than Windows 2000, create settings according to the manual of the wireless settings tool provided by your wireless device manufacturer.

For Windows Vista:

a. Open **Control Panel**.

b. Select **Network and Internet**.

c. Select **Network and Sharing Center**.

d. Select **Connect to a network**.

e. Select the original setting from the network items listed in **Connect to a network**, and then click **Connect**.

For Windows Server 2008:

a. Open **Control Panel**.

b. Select **Network and Sharing Center**.

c. Select **Connect to a network**.

d. Select the original setting from the network items listed in **Connect to a network**, and then click **Connect**.

For Fixed IP network:

1. Create wireless setting of your computer following the steps below.

NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.

b. Right-click **Wireless Network Connection** and select **Properties**.

c. Select the **Wireless Networks** tab.

d. Ensure the check box for **Use Windows to configure my wireless network settings** is checked.

NOTE: Be sure to write down the current wireless computer settings in steps d and f so that you can restore them later.

e. Click the **Advanced** button.

f. Select **Computer to Computer (ad hoc) networks only** and close the **Advanced** dialog box.

g. Click the **Add** button to display **Wireless network properties**.

h. Under the **Association** tab, enter the following information and click **OK**.

Network name (SSID): dell_device

Network Authentication: Open

Data encryption: Disabled

Ad hoc network: checked

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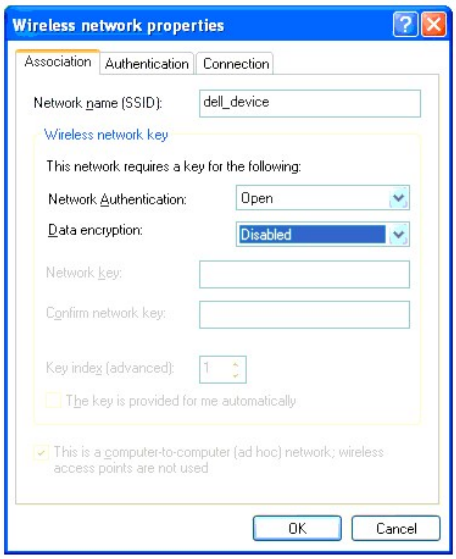

i. Click the **Move up** button to move the newly added SSID to the top of the list.

j. Click **OK** to close the **Property** dialog box.

NOTE: When your operating system is earlier than Windows 2000, create settings according to the manual of the wireless settings tool provided by your wireless device manufacturer.

For Windows Vista:

a. Open **Control Panel**.

b. Select **Network and Internet**.

c. Select **Network and Sharing Center**.

d. Select **Connect to a network**.

e. Select **dell_device** from the network items listed in **Connect to a network**.

f. Select **Connect Anyway** in the warning dialog box indicating you are entering an unsecured area.

g. Click **Close** in the dialog box after confirming the connection is a success.

For Windows Server 2008:

a. Open **Control Panel**.

b. Select **Network and Sharing Center**.

c. Select **Connect to a network**.

d. Select **dell_device** from the network items listed in **Connect to a network**.

e. Select **Connect Anyway** in the warning dialog box indicating you are entering an unsecured area.

f. Click **Close** in the dialog box after confirming the connection is a success.

2. Check the IP address on your computer.

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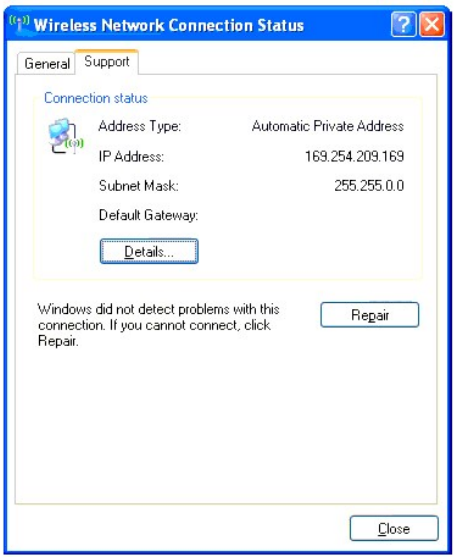

3. Set the IP address on the printer.
    a. Press **Menu** button.
    b. Scroll to **Admin** menu.
    c. Select **Network**.
    d. Select **TCP/IP**.
    e. Select **Get IP Address**.
    f. Select **Panel**.
    g. Scroll back to **IP Address**.
    h. Manually enter the IP address using the directional buttons on the control panel and press enter button.

```
IP Address

172.031.000.041*
```

4. Open Dell Printer Configuration Web Tool using WEB browser.

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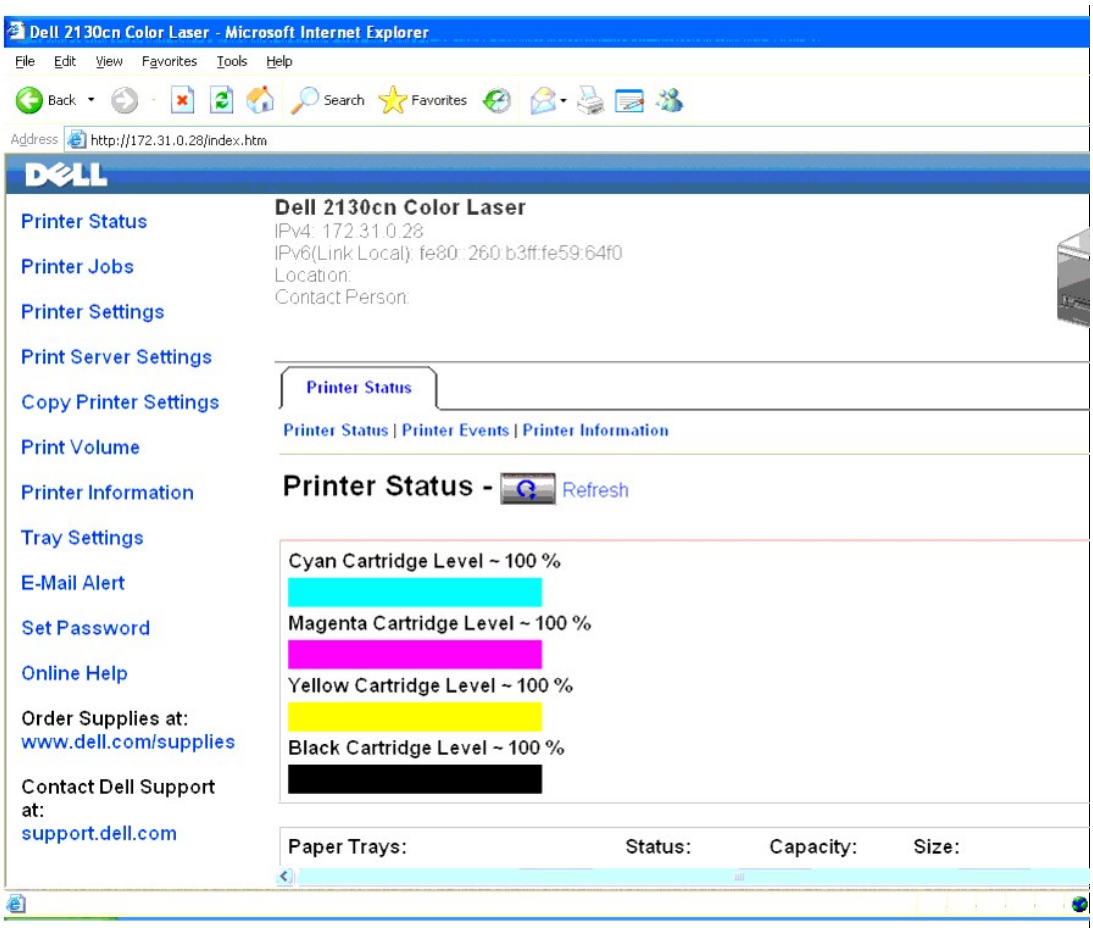

5. Change the wireless setting of the printer on Dell Printer Configuration Web Tool.
6. Reboot the printer.
7. Restore the wireless setting on your computer.

NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.
b. Right-click **Wireless Network Connection** and select **Properties**.
c. Select **Wireless Networks** tab.
d. Click **Advanced**.
e. Do either of the following:

When wireless ad-hoc mode is set to the printer:

Select **Computer to Computer (ad hoc) networks only** and close the **Advanced** dialog box.

When wireless infrastructure mode is set to the printer:

Select **Access point (Infrastructure) networks only** and close the **Advanced** dialog box.

f. Select the setting that you send to the printer in the list in **Preferred Network** group.
g. Click **Move up** to move the setting to the top of the list.
h. Click **OK** to close the **Property** dialog box.

NOTE: When your operating system is earlier than Windows 2000, create settings according to the manual of the wireless settings tool provided by your wireless device manufacturer.

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For Windows Vista:

a. Open **Control Panel**.

b. Select **Network and Internet**.

c. Select **Network and Sharing Center**.

d. Select **Connect to a network**.

e. Select the original setting from the network items listed in **Connect to a network**, and then click **Connect**.

For Windows Server 2008:

a. Open **Control Panel**.

b. Select **Network and Sharing Center**.

c. Select **Connect to a network**.

d. Select the original setting from the network items listed in **Connect to a network**, and then click **Connect**.

Scene 2. Construct new wireless network environment for both computer and printer (When wireless setting needs to be set to your computer)

For DHCP network:

1. Create wireless setting of your computer following the steps below.

NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.

b. Right-click **Wireless Network Connection** and select **Properties**.

c. Select the **Wireless Networks** tab.

d. Ensure the check box for **Use Windows to configure my wireless network settings** is checked.

NOTE: Be sure to write down the current wireless computer settings in steps e and g so that you can restore them later.

e. Click the **Advanced** button.

f. Select **Computer to Computer (ad hoc) networks only** and close the **Advanced** dialog box.

g. Click the **Add** button to display **Wireless network properties**.

h. Under the **Association** tab, enter the following information and click **OK**.

Network name (SSID): dell_device

Network Authentication: Open

Data encryption: Disabled

Ad hoc network: checked

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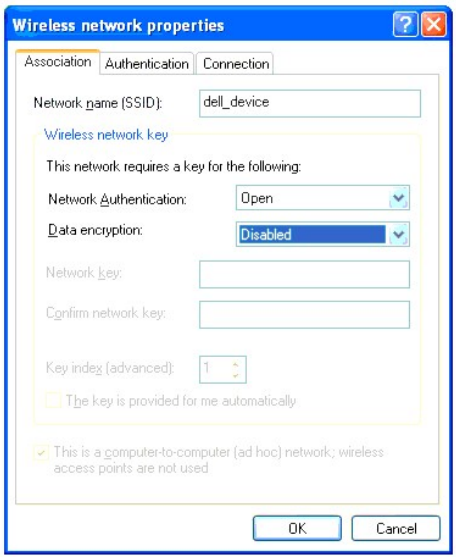

i. Click the **Move up** button to move the newly added SSID to the top of the list.

j. Click **OK** to close the **Property** dialog box.

NOTE: When your operating system is earlier than Windows 2000, create settings according to the manual of the wireless settings tool provided by your wireless device manufacturer.

For Windows Vista:

a. Open **Control Panel**.

b. Select **Network and Internet**.

c. Select **Network and Sharing Center**.

d. Select **Connect to a network**.

e. Select **dell_device** from the network items listed in **Connect to a network**.

f. Select **Connect Anyway** in the warning dialog box indicating you are entering an unsecured area.

g. Click **Close** in the dialog box after confirming the connection is a success.

For Windows Server 2008:

a. Open **Control Panel**.

b. Select **Network and Sharing Center**.

c. Select **Connect to a network**.

d. Select **dell_device** from the network items listed in **Connect to a network**.

e. Select **Connect Anyway** in the warning dialog box indicating you are entering an unsecured area.

f. Click **Close** in the dialog box after confirming the connection is a success.

2. Check the IP address assigned by AutoIP on the printer.

a. Press **Menu** on the printer control panel.

b. Scroll down and select **Admin Menu**.

c. Scroll down and select **Network**.

d. Scroll down and select **TCP/IP**.

e. Scroll down and select **IPv4**.

f. Scroll down and select **IP Address**.
(Default IP address range: 169.254.*xxx.yyy*)

```
IP Address

169.254.000.041*
```

3. Check that the IP address on your computer is assigned by DHCP.

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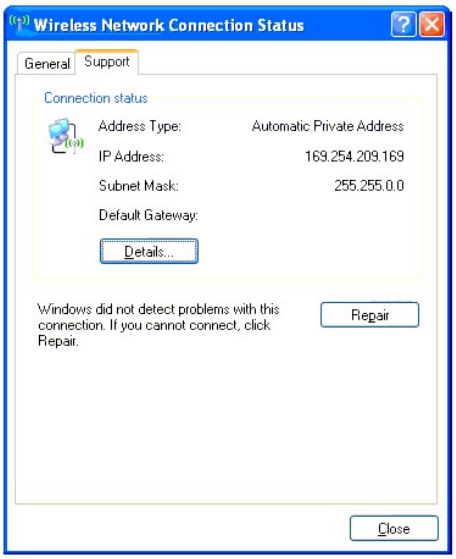
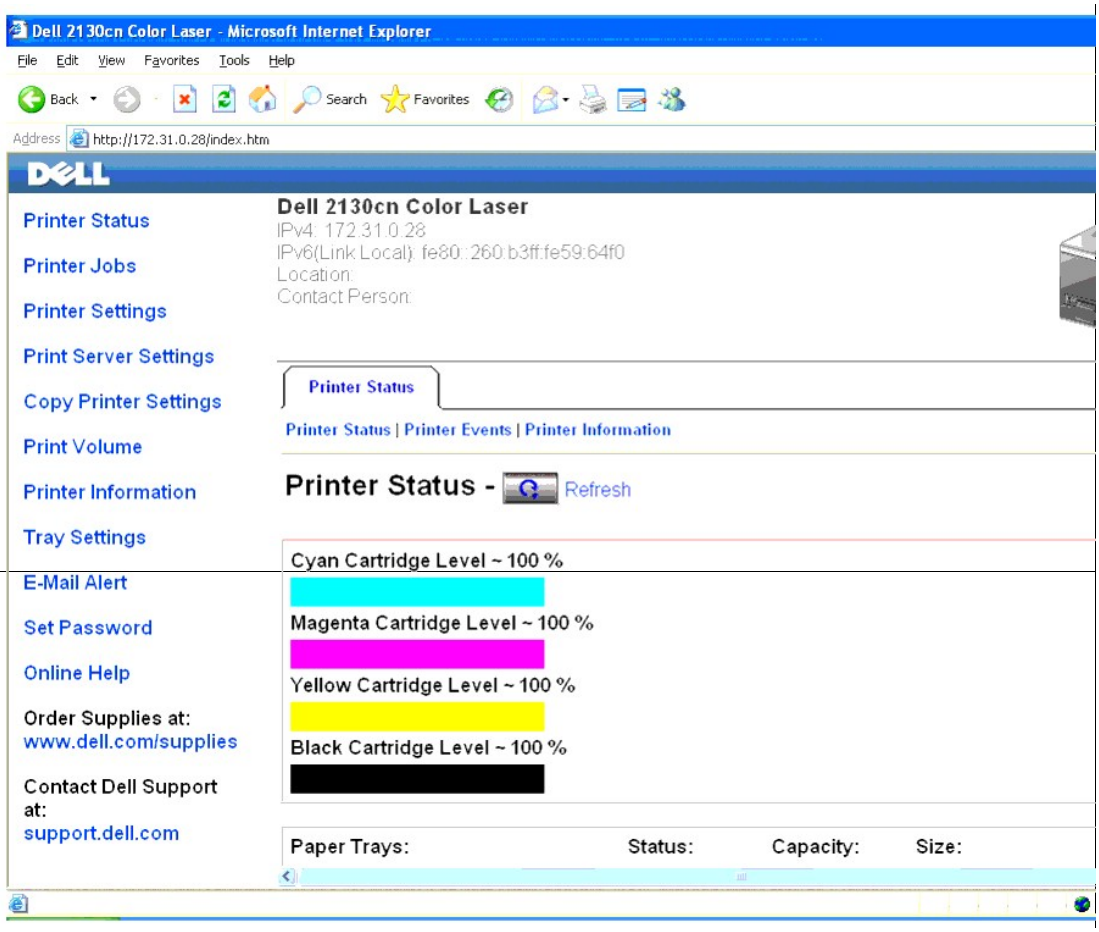


4. Open Dell Printer Configuration Web Tool using a WEB browser.



5. Create wireless setting of the printer on Dell Printer Configuration Web Tool.

6. Reboot the printer.

7. Restore the wireless setting on your computer.

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NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.

b. Right-click **Wireless Network Connection** and select **Properties**.

c. Select **Wireless Networks** tab.

d. Ensure the check box for **Use Windows to configure my wireless network settings** is checked.

e. Click **Advanced**.

f. Do either of the following:

When wireless ad-hoc mode is set to the printer:

Select **Computer to Computer (ad hoc) networks only** and close the **Advanced** dialog box.

When wireless infrastructure mode is set to the printer:

Select **Access point (Infrastructure) networks only** and close the **Advanced** dialog box.

g. Click **Add** to display **Wireless network properties**.

h. Enter the setting that you send to printer and click **OK**.

i. Click **Move up** to move the setting to the top of the list.

j. Click **OK** to close the **Property** dialog box.

NOTE: When your operating system is earlier than Windows 2000, create settings according to the manual of the wireless settings tool provided by your wireless device manufacturer.

For Windows Vista:

a. Open **Control Panel**.

b. Select **Network and Internet**.

c. Select **Network and Sharing Center**.

d. Select **Connect to a network**.

e. Select the setting you send to the printer from the network items listed in **Connect to a network**.

f. Select **Connect Anyway** in the warning dialog box indication indicating you are entering an unsecured area.

g. Click **Close** in the dialog box after confirming the connection is a success.

For Windows Server 2008:

a. Open **Control Panel**.

b. Select **Network and Sharing Center**.

c. Select **Connect to a network**.

d. Select the setting you send to the printer from the network items listed in **Connect to a network**.

e. Select **Connect Anyway** in the warning dialog box indication indicating you are entering an unsecured area.

f. Click **Close** in the dialog box after confirming the connection is a success.

For Fixed IP network:

1. Create wireless setting of your computer following the steps below.

NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.

b. Right-click **Wireless Network Connection** and select **Properties**.

c. Select the **Wireless Networks** tab.

d. Ensure the check box for **Use Windows to configure my wireless network settings** is checked.

NOTE: Be sure to write down the current wireless computer settings in steps d and f so that you can restore them later.

e. Click the **Advanced** button.

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f. Select **Computer to Computer (ad hoc) networks only** and close the **Advanced** dialog box.

g. Click the **Add** button to display **Wireless network properties**.

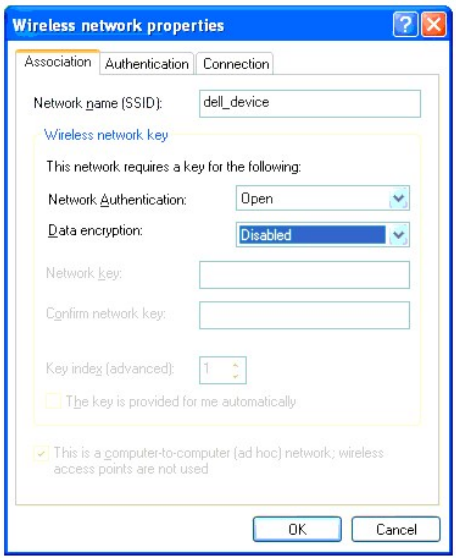
h. Under the **Association** tab, enter the following information and click **OK**.

Network name (SSID): dell_device

Network Authentication: Open

Data encryption: Disabled

Ad hoc network: checked



i. Click the **Move up** button to move the newly added SSID to the top of the list.

j. Click **OK** to close the **Property** dialog box.

NOTE: When your operating system is earlier than Windows 2000, create settings according to the manual of the wireless settings tool provided by your wireless device manufacturer.

For Windows Vista:

a. Open **Control Panel**.

b. Select **Network and Internet**.

c. Select **Network and Sharing Center.**

d. Select **Connect to a network**.

e. Select **dell_device** from the network items listed in **Connect to a network**.

f. Select **Connect Anyway** in the warning dialog box indicating you are entering an unsecured area.

g. Click **Close** in the dialog box after confirming the connection is a success.

For Windows Server 2008:

a. Open **Control Panel**.

b. Select **Network and Sharing Center**.

c. Select **Connect to a network**.

d. Select **dell_device** from the network items listed in **Connect to a network**.

e. Select **Connect Anyway** in the warning dialog box indicating you are entering an unsecured area.

f. Click **Close** in the dialog box after confirming the connection is a success.

2. Check the IP address on your computer.

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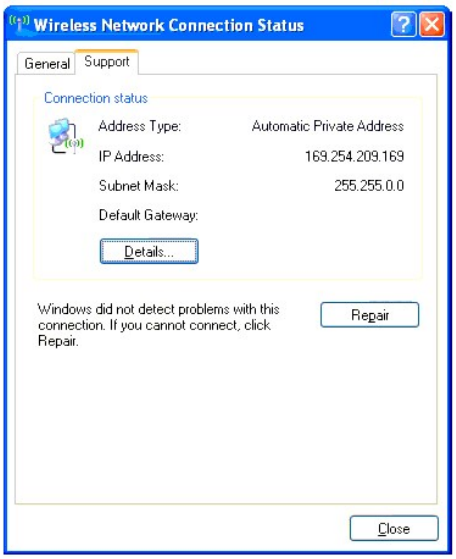

3. Set the IP address on the printer.
    a. Press **Menu** button.
    b. Scroll to **Admin** menu.
    c. Select **Network**.
    d. Select **TCP/IP**.
    e. Select **Get IP Address**.
    f. Select **Panel**.
    g. Scroll back to **IP Address**.
    h. Manually enter the IP address using the directional buttons on the control panel and press enter button.

```
IP Address

172.031.000.041*
```

4. Open Dell Printer Configuration Web Tool using WEB browser.

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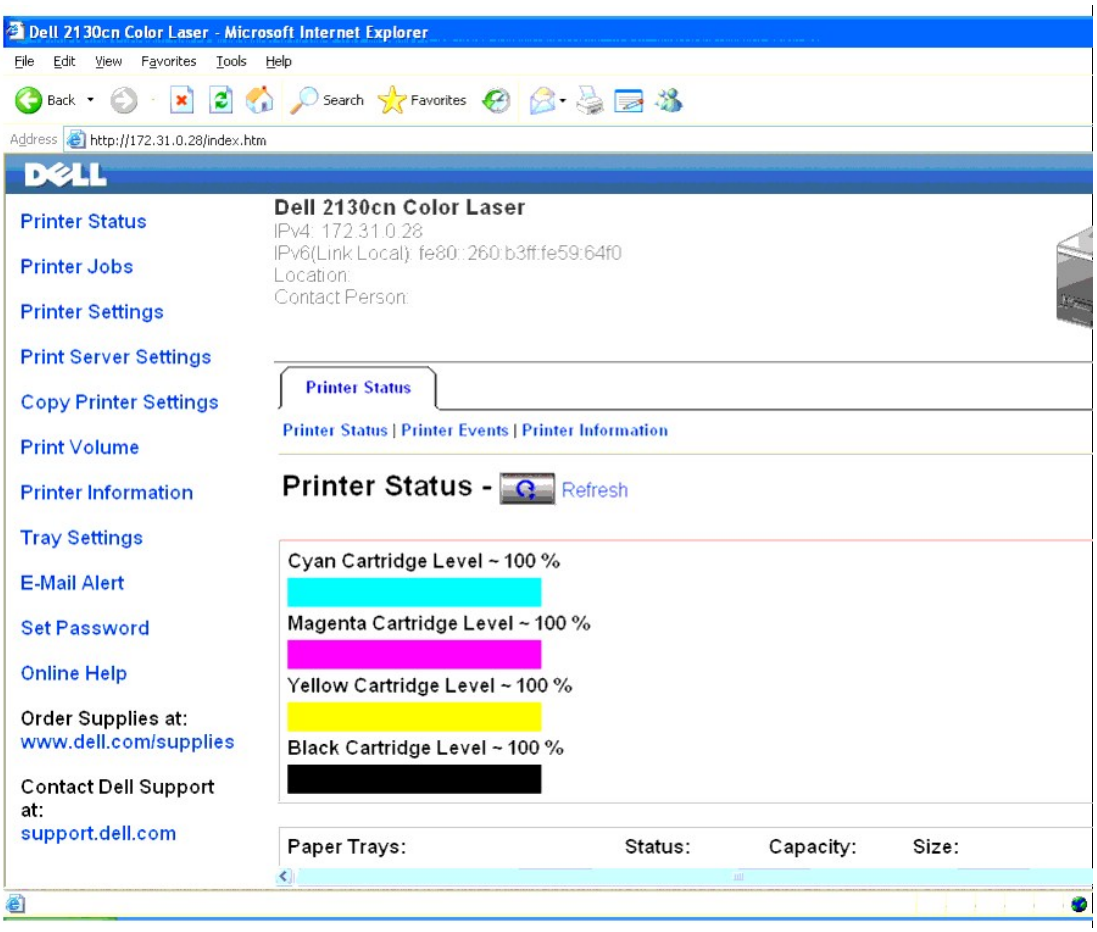

5. Change the wireless setting of the printer on Dell Printer Configuration Web Tool.
6. Reboot the printer.
7. Restore the wireless setting on your computer.

NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.
b. Right-click **Wireless Network Connection** and select **Properties**.
c. Select **Wireless Networks** tab.
d. Ensure the check box for **Use Windows to configure my wireless network settings** is checked.
e. Click **Advanced**.
f. Do either of the following:

When wireless ad-hoc mode is set to the printer:

Select **Computer to Computer (ad hoc) networks only** and close the **Advanced** dialog box.

When wireless infrastructure mode is set to the printer:

Select **Access point (Infrastructure) networks only** and close the **Advanced** dialog box.

g. Click **Add** to display **Wireless network properties**.
h. Enter the setting that you send to printer and click **OK**.
i. Click **Move up** to move the setting to the top of the list.
j. Click **OK** to close the **Property** dialog box.

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NOTE: When your operating system is earlier than Windows 2000, create settings according to the manual of the wireless settings tool provided by your wireless device manufacturer.

For Windows Vista:

a. Open **Control Panel**.
b. Select **Network and Internet**.
c. Select **Network and Sharing Center**.
d. Select **Connect to a network**.
e. Select the setting you send to the printer from the network items listed in **Connect to a network**.
f. Select **Connect Anyway** in the warning dialog box indication indicating you are entering an unsecured area.
g. Click **Close** in the dialog box after confirming the connection is a success.

For Windows Server 2008:

a. Open **Control Panel**.
b. Select **Network and Sharing Center**.
c. Select **Connect to a network**.
d. Select the setting you send to the printer from the network items listed in **Connect to a network**.
e. Select **Connect Anyway** in the warning dialog box indication indicating you are entering an unsecured area.
f. Click **Close** in the dialog box after confirming the connection is a success.

Wireless Setting through Dell Printer Configuration Web Tool - Advanced setup

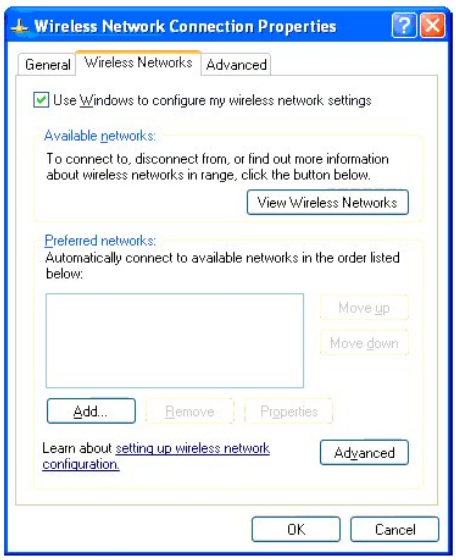
Access point (Infrastructure, DHCP network)

1. Create new wireless settings for your computer.

NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.
b. Right-click **Wireless Network Connection** and select **Properties**.
c. Select the **Wireless Networks** tab.
d. Ensure the check box for **Use Windows to configure my wireless network settings** is checked.



NOTE: Be sure to write down the current wireless computer settings in steps d and g so that you can restore them later.

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e. Click the **Advanced** button.

f. Select **Computer to Computer (ad hoc) networks only** and close the **Advanced** dialog box.

g. Click the **Add** button to display Wireless network properties.

h. Under the **Association** tab, enter the following information and click **OK**.

Network name (SSID): dell_device

Network Authentication: Open

Data encryption: Disabled

Ad hoc network: checked

i. Click the **Move up** button to move the newly added SSID to the top of the list.

j. Click **OK** to close the **Property** dialog box.

NOTE: When your operating system is earlier than Windows 2000, create settings according to the manual of the wireless settings tool provided by your wireless device manufacturer.

For Windows Vista:

a. Open **Control Panel**.

b. Select **Network and Internet**.

c. Select **Network and Sharing Center**.

d. Select **Connect to a network**.

e. Select **dell_device** from the network items listed in **Connect to a network**.

f. Select **Connect Anyway** in the warning dialog box indicating you are entering an unsecured area.

g. Click **Close** in the dialog box after confirming the connection is a success.

For Windows Server 2008:

a. Open **Control Panel**.

b. Select **Network and Sharing Center**.

c. Select **Connect to a network**.

d. Select **dell_device** from the network items listed in **Connect to a network**.

e. Select **Connect Anyway** in the warning dialog box indicating you are entering an unsecured area.

f. Click **Close** in the dialog box after confirming the connection is a success.

2. Set up the printer wireless adapter IP address.

a. Reset the settings for the wireless adapter to the default.

i. Press **Menu** on printer control panel.

ii. Scroll down and select **Admin Menu**.

iii. Scroll down and select **Network**.

iv. Scroll down and select **Reset Wireless**.

v. Restart the printer.

b. Retrieve the wireless adapter IP address on the printer.

i. Press **Menu** on the printer control panel.

ii. Scroll down and select **Admin Menu**.

iii. Scroll down and select **Network**.

iv. Scroll down and select **TCP/IP**.

v. Scroll down and select **IPv4**.

vi. Scroll down and select **IP Address**.

(Default IP address range: 169.254.*xxx.yyy*)

```
IP Address

169.254.000.041*
```

3. Access Dell Printer Configuration Web Tool on your computer browser.

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a. Assign the PC IP address by DHCP mode (Change the TCP/IP properties to obtain the IP address automatically).

b. Ensure your computer has the same IP address range as the printer wireless adapter.

e.g. 169.254.*xxx.zzz*

c. Access the Dell Printer Configuration Web Tool using the WEB browser, and then type printer wireless adapter settings in the address field of the browser.

e.g. http://169.254.xxx.yyy/ (Your wireless adapter IP address)

d. Change wireless settings (SSID/ communication mode) from Dell Printer Configuration Web Tool.

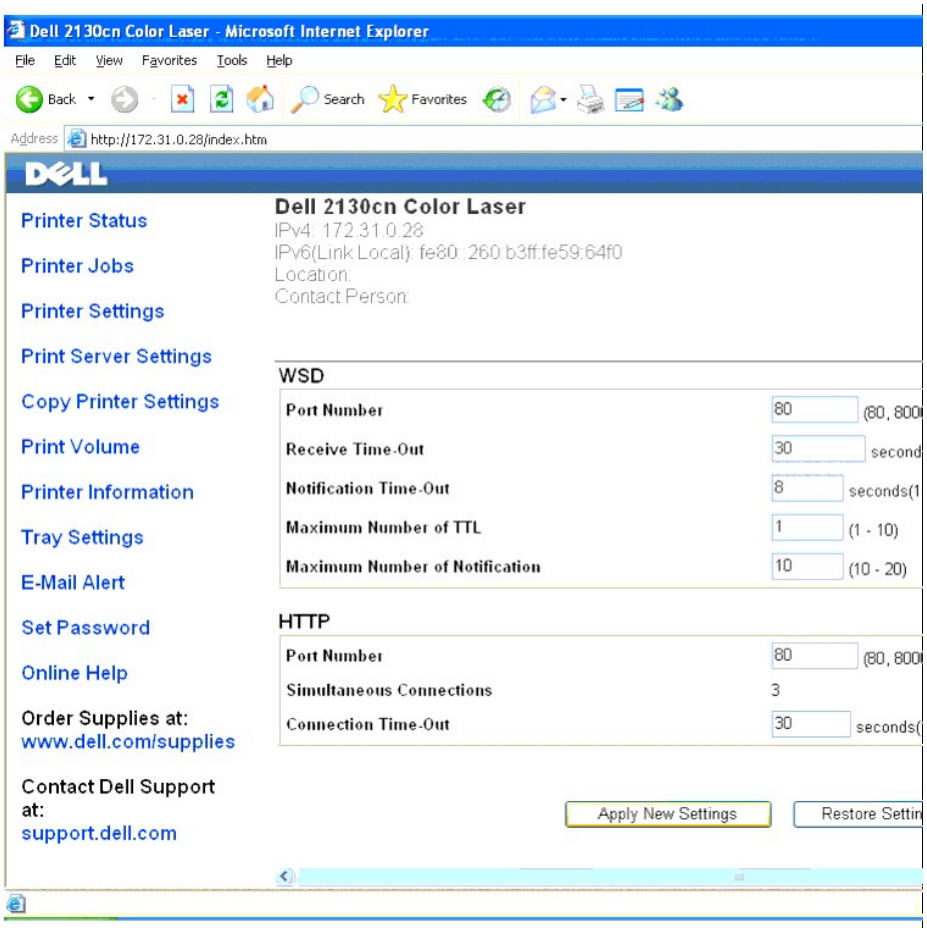
i. Click **Print Server Settings** on the left navigational bar.

ii. Click the **Print Server Settings** tab.

iii. Click the **TCP/IP** sub-tab.

iv. Select **DHCP**.

v. Click the **Apply New Settings** button without restarting the printer (Ignore the screen instructions to restart the printer).



vi. Click the **Wireless LAN** sub-tab.

vii. Change the **SSID** setting (according to your Access point SSID) and change **Network Type** to **Infrastructure**.

viii. Click the **Apply New Settings** button.

4. Once printer wireless adapter is properly configured, you may use the typical network printer installation method to complete driver installation.

5. To communicate with printer, you need to restore the previous wireless settings on your computer.

6. Restore the previous wireless settings for your computer.

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NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.

b. Right-click **Wireless Network Connection** and select **Properties**.

c. Select the **Wireless Networks** tab.

d. Click the **Advanced** button.

e. Select **Access point (Infrastructure) networks only** and close the **Advanced** dialog box (Applicable to printer with the wireless infrastructure mode).

f. Select the setting that you send to the printer in the list in the **Preferred Network** group

g. Click **Move up** to move the setting to the top of the list.

h. Click **OK** to close the **Property** dialog box.

NOTE: When your operating system is earlier than Windows 2000, create settings according to the manual of the wireless settings tool provided by your wireless device manufacturer.

For Windows Vista:

a. Open **Control Panel**.

b. Select **Network and Internet**.

c. Select **Network and Sharing Center**.

d. Select **Connect to a network**.

e. Select the setting you send to the printer from the network items listed in **Connect to a network**.

f. Select **Connect Anyway** in the warning dialog box indication indicating you are entering an unsecured area.

g. Click **Close** in the dialog box after confirming the connection is a success.

For Windows Server 2008:

a. Open **Control Panel**.

b. Select **Network and Sharing Center**.

c. Select **Connect to a network**.

d. Select the setting you send to the printer from the network items listed in **Connect to a network**.

e. Select **Connect Anyway** in the warning dialog box indication indicating you are entering an unsecured area.

f. Click **Close** in the dialog box after confirming the connection is a success.

Access point (Infrastructure, Fixed IP network)

1. Ensure that the addresses of your computer and access point is in the same IP range. Match the subnet mask and gateway addresses of your computer to the access point settings.

2. Create new wireless settings of your computer by following the steps below.

NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.

b. Right-click **Wireless Network Connection** and select **Properties**.

c. Select the **Wireless Networks** tab.

d. Ensure the check box for **Use Windows to configure my wireless network settings** is checked.

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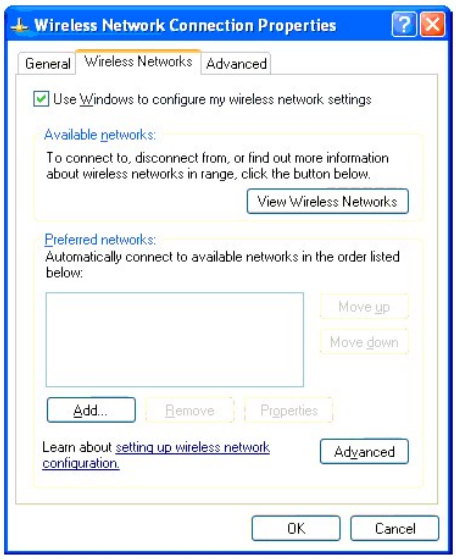

NOTE: Be sure to write down the current wireless computer settings in steps d and f so that you can restore them later.

e. Click the **Advanced** button.

f. Select **Computer to Computer (ad hoc) networks only** and close the **Advanced** dialog box.

g. Click the **Add** button to display Wireless network properties.

h. Under the **Association** tab, enter the following information and click **OK**.

Network name (SSID): dell_device

Network Authentication: Open

Data encryption: Disabled

Ad hoc network: Checked

i. Click the **Move up** button to move the newly added SSID to the top of the list.

j. Click **OK** to close the **Property** dialog box.

NOTE: When your OS is earlier than Windows 2000, create settings according to the manual of the wireless settings tool provided by your wireless device manufacturer.

For Windows Vista:

a. Open **Control Panel**.

b. Select **Network and Internet**.

c. Select **Network and Sharing Center**.

d. Select **Connect to a network**.

e. Select **dell_device** from the network items listed in **Connect to a network**.

f. Select **Connect Anyway** in the warning dialog box indicating you are entering an unsecured area.

g. Click **Close** in the dialog box after confirming the connection is a success.

For Windows Server 2008:

a. Open **Control Panel**.

b. Select **Network and Sharing Center**.

c. Select **Connect to a network**.

d. Select **dell_device** from the network items listed in **Connect to a network**.

e. Select **Connect Anyway** in the warning dialog box indicating you are entering an unsecured area.

f. Click **Close** in the dialog box after confirming the connection is a success.

3. Check the IP, subnet mask and gateway address on your computer.

e.g. IP: 192.168.1.1

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Subnet mask: 255.255.0.0

4. Set the IP address from the printer control panel to be in the same range as that of your computer. Match the subnet mask and gateway addresses of the printer to your computer settings.
   a. Press **Menu** button.
   b. Scroll to **Admin Menu**.
   c. Select **Network**.
   d. Select **TCP / IP**.
   e. Select **Get IP Address**.
   f. Select **Panel**.
   g. Scroll back to **IP Address**.
   h. Manually enter the IP address using the directional buttons on the control panel and press enter button.

      ```
      IP Address

      172.031.000.041*
      ```

   i. Scroll back to **Subnet Mask**.
   j. Manually enter the subnet mask address using the directional buttons on the control panel and press enter button.
   k. Scroll back to **Gateway Address**.
   l. Manually enter the gateway address using the directional buttons on the control panel and press the Enter button.
   m. Restart the printer.

5. Open Dell Printer Configuration Web Tool using the WEB browser.

   e.g.: http://:192.168.1.2

6. Change wireless settings of the printer from Dell Printer Configuration Web Tool.
   a. Click **Print Server Settings** on the left navigational bar.
   b. Click **Print Server Settings** tab.
   c. Click **Wireless LAN** sub-tab.
   d. Change the SSID setting (according to your access point SSID) and change **Network Type** to **Infrastructure**.
   e. Click the **Apply New Settings** button.

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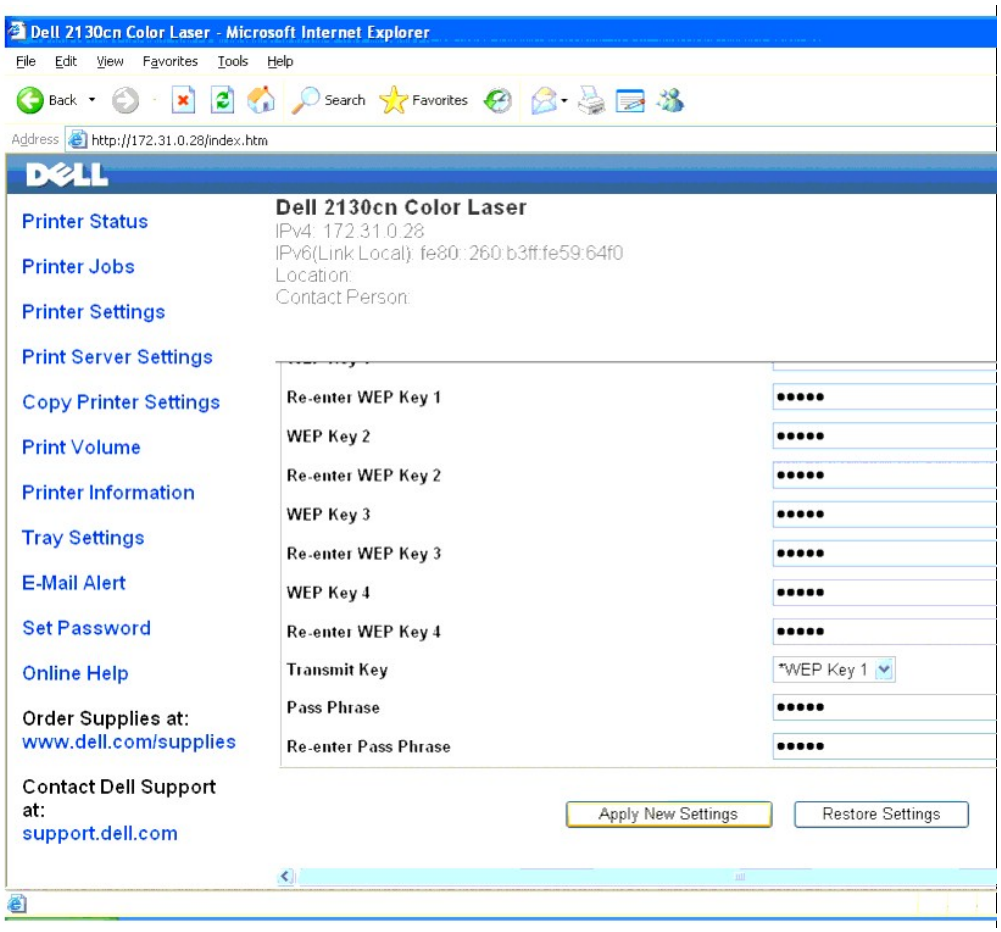

7. Restore the previous wireless settings for your computer.

NOTE: If your computer provides a wireless printer adapter tool, change the wireless settings using this tool. Or you can change the wireless settings using the tool provided by the operating system. See the instructions below.

For Windows XP and Windows Server 2003:

a. Select **Network Connections** from Control Panel.

b. Right-click **Wireless Network Connection** and select **Properties**.

c. Select **Wireless Networks** tab.

d. Click **Advanced**.

e. Do either of the following:

When wireless ad-hoc mode is set to the printer:

Select **Computer to Computer (ad hoc) networks only** and close the **Advanced** dialog box.

When wireless infrastructure mode is set to the printer:

Select **Access point (Infrastructure) networks only** and close the **Advanced** dialog box.

f. Select the setting that you send to the printer in the list in **Preferred Network** group.

g. Click **Move up** to move the setting to the top of the list.

For Windows Vista:

a. Open **Control Panel**.

b. Select **Network and Internet**.

c. Select **Network and Sharing Center**.

d. Select **Connect to a network**.

e. Select the setting you send to the printer from the network items listed in **Connect to a network**.

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f. Select **Connect Anyway** in the warning dialog box indication indicating you are entering an unsecured area.

g. Click **Close** in the dialog box after confirming the connection is a success.

For Windows Server 2008:

a. Open **Control Panel**.

b. Select **Network and Sharing Center**.

c. Select **Connect to a network**.

d. Select the setting you send to the printer from the network items listed in **Connect to a network**.

e. Select **Connect Anyway** in the warning dialog box indication indicating you are entering an unsecured area.

f. Click **Close** in the dialog box after confirming the connection is a success.

8. Click **OK** to close the **Property** dialog box.

NOTE: When your operating system is earlier than Windows 2000, create settings according to the manual of the wireless settings tool provided by your wireless device manufacturer.

Enable Network Discovery and File Sharing for all Public Networks

You can skip "Disable User Account Control" for this procedure.

NOTE: This step is required when you use Windows Vista, Windows Server 2008, or Windows Server 2008 64-bit Edition for the server computer.

1. Click **Start**→ **Network**.
2. Click **Network discovery and file sharing are turned off. Network computers and devices are not visible. Click to change**.
3. Click **Turn on network discovery and file sharing**.
4. Click **Yes, turn on network discovery and file sharing for all public networks**.

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